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NEWS
    8 DEC 15 MEDLINE update schedule for December 2004
NEWS
        DEC 17 ELCOM reloaded; updating to resume; current-awareness
NEWS
                 alerts (SDIs) affected
     10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness
NEWS
                 alerts (SDIs) affected
     11 DEC 17
                 SOLIDSTATE reloaded; updating to resume; current-awareness
NEWS
                 alerts (SDIs) affected
                 CERAB reloaded; updating to resume; current-awareness
NEWS
      12 DEC 17
                 alerts (SDIs) affected
                THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
     13 DEC 17
NEWS
             OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
NEWS EXPRESS
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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FILE 'HOME' ENTERED AT 08:18:59 ON 23 DEC 2004

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

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STRUCTURE FILE UPDATES: 21 DEC 2004 HIGHEST RN 800413-66-5 DICTIONARY FILE UPDATES: 21 DEC 2004 HIGHEST RN 800413-66-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

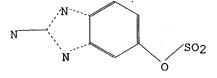
Please note that search-term pricing does apply when conducting SmartSELECT searches.

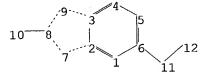
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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Uploading C:\Program Files\Stnexp\Queries\10808889.str





chain nodes:

10 11 12

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

6-11 8-10 11-12

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

2-7 3-9 6-11 7-8 8-9 8-10 11-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS 12:CLASS

L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

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Structure attributes must be viewed using STN Express query preparation.

=> s 11 SAMPLE SEARCH INITIATED 08:19:31 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 23 TO ITERATE

100.0% PROCESSED 23 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 173 TO 747
PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> s 11 full FULL SEARCH INITIATED 08:19:36 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 303 TO ITERATE

100.0% PROCESSED 303 ITERATIONS SEARCH TIME: 00.00.01

87 ANSWERS

SEARCH TIME: 00.00.01

L3 87 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 155.42 155.63

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:19:39 ON 23 DEC 2004
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 L4

53 L3

=> d ibib abs hitstr tot THE ESTIMATED COST FOR THIS REQUEST IS 252.28 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:128035 CAPLUS
DOCUMENT NUMBER: 140:356119
TITLE: Mechanisms by which resistant

AUTHOR(S): CORPORATE SOURCE:

140:356119

Mechanisms by which resistant starches and non-starch polysaccharide sources affect the metabolism and disposition of the food carcinogen, 2-amino-3-methylimidazo(4,5-f]quinoline Kestell, P., Zhu, S., Ferguson, L. R. Auckland Cancer Society Research Centre, Faculty of Medicine and Health Science, University of Auckland, Auckland, 92019, N. Z. Journal of Chromatography, B: Analytical Technologies in the Biomedical and Life Sciences (2004), 802(1), 201-210

CODEN: JCBARI, ISSN: 1570-0232

Elsevier B.V.

SOURCE:

Elsevier B.V. PUBLI SHER: DOCUMENT TYPE: Journal English

English
Although both non-starch polysaccharides (NSP) and resistant starches (RS) are included in current definitions of dietary fiber, the authors' previous work has suggested fundamental differences in the way in which these two classes of material affect the disposition and absorption of a dietary carcinogen. The present studies explore whether different effects on carcinogen metabolism could play a role in the contrasting patterns seen previously. Groups of female Wistar rats were pre-fed for 4 wk one of five types of defined diet (AIN-76). The control diet contained 3% maize starch and no dietary fiber. The RS-containing diets had all the maize ch

starch and no dietary fiber. The RS-containing Dieta and the master starch substituted with either Hi-maize or potato starch. In the NSP-containing diets, 10% of the maize starch was substituted with dietary fiber in the form of either lignified plant cell walls (wheat straw) or soluble dietary fiber (apple pectin). Pre-fed rats were gavaged with the food carcinogen, [2-14c]-2-amtno-3-methylmidazo[4,5-f]quinoline (10), and plasma and urinary metabolites characterized using HFC at various time intervals after administration. After 4 h gavage, plasma from tars on both RS-containing diets contained significantly higher levels of intact IQ and lower levels of the major metabolites, 10-5-0-glucronide and IQ-5-sulfate, as compared with plasma from the neg. control group at this time. In contrast, plasma from animals on the MSP-containing wheat straw diet

(and to a lesser extent the apple pectin diet) showed significantly lower levels of intact IQ, and significantly higher levels of the two major metabolites, as compared with those from the control rats. These different metabolite profiles were also reflected in different urinary excretion profiles. Urine from rats pre-fed RS-containing diets revealed significantly slower metabolite excretion as compared with urine from rats that had been given the NSP-containing diets. Vestern blotting odologies also profiled differences between the effects of these two types of dietary fiber in the expression of xenobiotic-metabolizing enzymes. Apparently, changes in activity and expression of xenobiotic-metabolizing enzymes could play a role in the contrasting effects of these two types of dietary fiber on carcinogen uptake and disposition.

122719-40-8 CARDUS
3H-ImidzaOd, 5-Fiquinolin-5-01, 2-amino-3-methyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TILE:
1NVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
DOCUMENT TYPE:
AMMIGIACR:

CAPIUS COPYRIGHT 2004 ACS on STN
2004:60255 CAPIUS
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FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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	WO	2004	0068	49		A2		2004	0122	,	WO 20	003-	US21	984		2	0030	715
	WO 2004006849 W: AE, AG, A				A3		2004	0603										
		W:	AE,	AG,	AL,	λM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			co,	CR,	CU,	CZ,	DE,	DK,	DH.	DZ,	EC.	EE,	ES.	FI,	GB.	GD,	GE.	GH,
								IN,										
			LS,	LT,	LU.	L٧,	MA,	MD,	MG,	MK,	MN,	MW.	MX,	MZ,	NI,	NO,	NZ,	OH,
			PG,	PH,	PL,	PT,	RO,	RU,	sc,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,
			TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	Yυ,	Zλ,	ZM,	ZW			
		RW:	GH,	GH,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	Z¥,	AM,	λZ,	BY,
			KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK.	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI.	SK,	TR,
			BF,	ВJ,	CF,	CG,	CI,	ΟN,	GA,	GN,	GQ,	GW,	ML,	MR.	NE,	SN,	TD,	TG

BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MS, ME, SN, TD, TG
PRIGRITY APPIN. INFO:
OTHER SOURCE(S):
MARPAT 140:105258

BF the invention features a method for treating a patient having a cancer or
other neoplasm, by administering to the patient (i) a benzimidazole or a
metabolite or analog thereof; and (ii) pentamidine or a metabolite or
analog thereof simultaneously or within 14 days of each other in amts.
sufficient to inhibit the growth of the neoplasm.

IT 90509-02-7, Luxabendazole
RI: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(Denzimidazole compound-pentamidine compound combinations for the
treatment
of necolasms)

tment
 of neoplasms)
90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-1Hbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 1 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

REFERENCE COUNT:

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 2003:498539 CAPLUS DOCUMENT NUMBER: 140:1779 TITLE: The disposition and metabolism

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

THE disposition and metabolism of 2-amino-3methylimidazo-(4,5-5-flquinolline in the F344 rat at high
versus low doses of indole-3-carbinol

AUTHOR(S):

Dashwood, R. H., Y. W. Flquinolline in the F344 rat at high
versus low doses of indole-3-carbinol

Dashwood, R. H., Y. W. Flquinolline in the F344 rat at high
versus low doses of indole-3-carbinol

Dashwood, R. H., Y. W. Crevallin, OR, 97331-6512,

USA

SOURCE:

PUBLISHER:

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Indole-3-carbinol (13C), a compound found in cruciferous vegetables,
inhibits the formation of DNA adducts, colonic aberrant crypts, and tumors
in rats given heterocyclic amines, such as 2-amino-3-methylimidazo(4,5flquinolline (10). Previous mechanism studies indicated that ISC induces
cytochromes P 4501A1 (CTP1A1) and CTP1A2, as well as phase 2 pathways,
leading to enhanced metabolism and exerction of 10 However, the
chemopreventive activity is dependent on the dose of 13C, and at low doses
Which do not induce CTP1A activity, there is evidence for increased (2-om)
adduct formation in vivo. The present study examined the fate of IQ in the
rat and the profile of urinary metabolities across a broad range of I3C
doses. Hale F344 rats were given a single injection of I3C by oral
gavage, at a dose equivalent to that received from a single daily exposure
to

0, 5, 10, 25, 50, 100, 200, 500 or 1000 ppm I3C in the diet, or they were

gavage, at a dose equivalent to that received from a single daily exposure 0, 5, 10, 25, 50, 100, 200, 500 or 1000 ppm I3C in the diet, or they were given the 1000-ppm-equivalent dose of I3C for 14 consecutive days. Subsequently, each rat was given 14C-labeled IQ (5 mg/kg) 0.1 mCi/kg) and the animal was sacrificed 8 h late. With increasing I3C, there was a dose-dependent decrease in IQ-associated radiolabel in several systemic tissues, and an increase in the radiolabel eliminated via the feces. In the urine, there was a dose-dependent increase in IQ-5-0-glucuronide and IQ-5-0-sulfate metabolites, and a concomitant decrease in the IQ-sulfamate at intermediate and high doses of I3C. However, 5- and I0 ppm-equivalent doses of I3C enhanced the levels of IQ-sulfamate compared with controls, possibly due to the high ratio of hepatic CYPIA2 vs. CYPIAl activities at these I3C doses. The possible significance of the low vs. high dose effects are discussed in the context of ongoing clin. trials with I3C and the reported chemopreventive mechanisms in vivo.

RL: BSU (Biological study, unclassified); BIOL (Biological study) (disposition and metabolism of amino-methylimidazoquinoline in F344 rat

at high vs. low doses of indole-carbinol) 122719-40-8 CAPLUS

3H-Imidazo[4,5-f]quinolin-5-ol, 2-amino-3-methyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

63

REFERENCE COUNT:

THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN SSION NUMBER: 2003:259734 CAPLUS MENT NUMBER: 138:271683 ACCESSION NUMBER: DOCUMENT NUMBER:

INVENTOR (S):

PATENT ASSIGNEE (S): SOURCE:

138:271683

Preparation of 2-(acylamino)-5(benzenesulfonyloxy)benzimidazole compounds and their
use for the treatment of cancer
Clerc, Francois; Hamy, Francois; Depaty, Isabelle;
Angouillant-Boniface, Odile; Roesner, Manfred
Aventis Pharma S.A., Fr.
Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
Patent DOCUMENT TYPE: Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: EP 1298125 A1 20030402 EP 2001-402460 20010926 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, LT, LL, LU, NL, SE, MC, PT, CO 2003028721 A2 20030410 W0 2002-EP11353 20020926 W: AE, AG, AL, AM, AT, AU, AZ, BA BB BC CO CE CO CE CO APPLICATION NO.

OTHER SOURCE(S):

MARPAT 138:271683

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New benzimidazole compds. of formula (I) [wherein R1 = 4-NH2, 4-alkylamino or cycloalkylamino eventually substituted with an acyl or its derivative, hydrowy, amino, alkowy, heterocyclyl, or aryl group; R2 = (I) alkyl eventually substituted by amino, acid, acid derivative, alkowy, aryl or OH groups, (2) arylalkyl eventually substituted by alkowy, halogeno, amino, acid of acid deriva, (3) alkowy eventually substituted by aryl. (4)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) amino, NHB3, or NB3R4 (wherein R3, R4 = H, alkyl, alkylaryl, aryl or together form an alkylene chain] or pharmaceutically acceptable salts thereof, which are useful for treating canner diseases, are prepd. These compds. I are inhibitors of cyclin-dependent kinases (CKDs, in particular CDR4) which are regulators for progression of the cell cycle at cell cycle at cell cycle checkpoints, and are effective in inhibiting the proliferation of neoplastic cells. Thus, 15.6 g 2-amino-5-(4-fluorophenylsulfonyloxy)nitro benzene were combined with 25 mb ethanolamine in 100 ml ethylene glycol in a round bottom flask and heated to reflux for 90 min to give, after workup, 15.5 g 2-amino-5-(4-fluorophenylsulfonyloxy)nitrobenzene (II). II (15.5 g) in 75 ml HeOH and 75 ml DMF were hydrogenated under atm. pressure with a catalytic amt. of Raney Mickel, filtered to remove the catalyst followed by washing the catalyst with MeOH. The filtrate and the washing were combined, cond. under reduced pressure, taken up in 150 ml HeOH and 30 ml glacial acetic acid, treated with 10.3 g 1,3-bis (methoxycarbowy)-2-methyl-2-thioppenducurea, and heated to reflux with stirring for 3 h to give, after crystn. from methanol, 7.4 g Me 5-(4-aminophenylsulfonyloxy) henzimidazole-2-carbamate showed 155 of 1.43 and 0.28 pM, resp., against CDR4/CyclinoDl kinsse. 503545-79-7P 503545-79-7P

IT \$0.3348-79-TP

RU: PAC (Phacmacological activity); RCT (Reactant); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(intermediate; preparation of 2-(acylamino)-5-(benzeneulfonylowy)benzimidaz ole compdo, as inhibitors of cyclin-dependent kinases for treatment of careful.

IT

50345-82-98
RL: PAC (Pharmacological activity), RCT (Reactant); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of 2-(acylamino)-5-(benzenesulfonyloxy)benzimidazole

4s. as inhibitors of cyclin-dependent kinases for treatment of cancer) 503545-62-8 CAPLUS Benzenesulfonic acid, 4-(IH-imidazol-1-yl)-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) 503348-56-0P 503348-58-2P 503348-60-8F 503348-63-9P 503348-61-9P 503348-65-1P 503348-66-2P 503348-67-3P 503348-67-3P 503348-71-3P 503348-71-DULYJULEA RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (preparation of 2-(acylamino)-5-(benzenesulfonyloxy)benzimidazole

L4 ANSWER (OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
inhibitors of cyclin-dependent kinases for treatment of cancet)
RN 503545-56-0 CAPLUS
CN Benzenesulfonic acid, 4-[(2-hydroxyethyl)amino]-, 2[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

503545-58-2 CAPLUS
Benzenesulfonic acid, 4-[(4-hydroxybuty1)amino]-, 2[(methoxycarbony1)amino]-IH-benzimidazo1-5-y1 ester (9CI) (CA INDEX NAME)

503545-60-6 CAPLUS Benzenesulfonic acid, 4-[(2-methoxyethyl)amino]-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

503545-63-9 CAPLUS
Benzenesulfonic acid, 4-[(2-pyridinylmethyl)amino]-, 2[(methoxycarbonyl)amino]-IH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

503545-64-0 CAPLUS Benzenesulfonic acid, 4-(ethylamino)-, 2-((methoxycarbonyl)amino)-1H-benzimidazo1-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

503545-69-5 CAPLUS
Bornard Caid, 4-[[1-(hydroxymethyl)propyl]amino]-,
2-[[methoxycarbonyl]amino]-IH-benzimidazol-5-yl ester (9CI) (CA INDEX

503545-70-8 CAPLUS
Benzenesulfonic acid, 4-(butylamino)-, 2-[(methoxycarbonyl)amino]-1H-benzimidasol-5-yl ester (9CI) (CA INDEX NAME)

503545-71-9 CAPLUS
Benzenesulfonic acid, 4-[(3-methoxypropy1)amino]-, 2[(methoxycarbony1)amino]-1H-benzimidazo1-5-y1 ester (9C1) (CA INDEX NAME)

\$03545-72-0 CAPLUS
Benzenesulfonic acid, 4-{methylamino}-, 2-[(methoxycarbonyl)amino]-1H-benzimidzol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

503545-65-1 CAPLUS
Benzenesulfonic acid, 4-[(aminoacetyl)amino]-, 2-[(methoxycarbonyl)amino]H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

503545-66-2 CAPLUS
Benzenesulfonic acid, 4-[(2-hydroxy-1-methylethyl)amino]-,
2-[(methoxycarbonyl)amino]-1H-benzimidazo1-5-yl ester (9CI) (CA INDEX NAME)

503545-67-3 CAPLUS
Benzenesulfonic acid, 4-[(2-hydroxypropyl)amino]-, 2[(methoxycarbonyl)amino]-IH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

503545-68-4 CAPLUS Benzeneaulfonic acid, 4-[(1-methylethyl)amino]-, 2-[(methoxycathonyl)amino]-IH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

503545-73-1 CAPLUS
Benzenesulfonic acid, 4-[(2-sulfoethyl)amino]-, 1-[2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl] ester (9CI) (CA INDEX NAME)

503545-74-2 CAPLUS
Benzenesulfonic acid, 4-amino-, 2-[(methoxycarbonyl) amino]-1H-benzimidazol5-yl ester (9CI) (CA INDEX NAME)

503545-75-3 CAPLUS
Benzenesulfonic acid, 4-[[2-(diethylamino)ethyl]amino]-,
2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX

503545-76-4 CAPLUS
Benzenesulfonic acid, 4-[[(tetrahydro-2-furanyl)methyl]amino]-,
2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

RN 503545-78-6 CAPLUS
CN Benzensulfonic acid, 4-[(2-phenylethyl)amino]-, 2[(aethoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

RN 503545-80-0 CAPLUS
CN Butanoic acid, 4-[15-[[[4-(IH-imidazol-1-y1)phenyl]sulfonyl]oxy]-IH-benzimidazol-2-y1]mino]-4-0x0-, methyl ester (9C1) (CA INDEX NAME)

N NH-C-CH2-CH2-C-OM6

RN 503545-01-1 CAPLUS

Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[[(1,1-dimethylethoxy)carbonyl]amino]acetyl]amino]-1H-benzimidazol-5-yl ester
(SCI) (CA INDEX NAME)

RN 503545-83-3 CAPLUS
CN Butanoic acid, 4-[[5-[[[4-(cyclopentylamino)phenyl]sulfonyl]oxy]-1Hbenzimidazoi-2-yljaminoj-4-0x0-, methyl ester (9Ci) (CA INDEX NAME)

L4 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

MH-C-CH2-NMe2

RN 503545-88-8 CAPLUS

Senzenesulfonic acid, 4-{1H-imidazol-l-yl}-, 2
{(methylamino)carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

N NH-C-NHMe

RN 503545-89-9 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2[[(methylamino)carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

NH-C-NHMe

RN 503545-90-2 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2[[(dimethylamino)carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA
INDEX NAME)

NH-C-NNe2

RN 503545-91-3 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2[(cyclopentylamino)-1H-benzimidazol-5-yl ester (9CI) (CA
INDEX NAME)

L4 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

NH NH C- CH₂- CH₂- CH₂- C- OM

RN 503545-84-4 CAPLUS

Pentanoic acid, 5-[[5-[[4-(cyclopentylamino)phenyl]sulfonyl]oxy]-lH-beniimidazol-2-yl]amino)-5-oxo-, methyl ester (9Cl) (CA INDEX NAME)

NH C (CH2) 3 - C - CHe

RN 503545-85-5 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2- (cyclopropylcarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

NH S-O NH NH C

RN 503545-86-6 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[(methoxyacetyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

NH NH CC-CH2-OMe

FN 503545-87-7 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2 [((dimethylamino) acetyl]amino]-IH-benzimidazol-5-yl ester (9CI) (CA INDEX NAMS)

L4 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

NH NH C-NH

RN 503545-92-4 CAPLUS

Renzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[(1-methylethyl)amino]carbonyl]amino]-H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

NEI NEI C-NEIPr-i

RM 503545-93-5 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2[[(butylamino)carbonyl]amino)-]H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

NH-C-NHBu-n

RN 503545-94-6 CAPLUS
CN Benzenesulfonic acid, 4-(1H-imidazol-1-yl)-, 2-[[[(2-fluorophenyl)amino]carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

N NH C-NH

RN 503545-95-7 CAPLUS

Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[2-fluorophenyl)amino]carbonyl]amino]-lH-benzimidazol-5-yl ester [9CI] [CA INDEX NAME]

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) L4

503545-96-0 CAPLUS
Bunzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[(3-mathoxyphenyl)amino]carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA

503545-97-9 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[(4-methoxyphenyl)amino]carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA

503545-98-0 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[4chlorophenyl]amino]carbonyl]amino]-H-benzimidazol-5-yl ester (9CI) (CA
INDEX NAME)

503545-99-1 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[(3fluocophenyl)amino]carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA
INDEX NAME)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

503546-05-2 CAPLUS
Benzenesulfonic acid, 4-(lH-imidazol-1-yl)-, 2-[[[{2-sulfoethyl}amino]carbonyl]amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

503546-06-3 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[(2-methoxyethyl)amino]carbonyl]amino]-IH-benzimidazol-5-yl ester (9CI) (CA

S03546-07-4 CAPLUS
Benzeneaulfonic acid, 4-(cyclopentylamino)-, Z-[[[[4-(dimethylamino)phenyl]amino]carbonyl]amino]-lH-benzimidazol-5-yl ester (SCI) (CA INDEX NAME)

503546-08-5 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[(2-pyridinylmethyl)amino]carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) 503546-00-7 CAPLUS Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[3-chlorophenyl]amino]carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA

503546-01-8 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[2-methylpropyl)amino]carbonyl]amino]-H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME) RN CN

503546-02-9 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[[2-(dimethylamino)ethyl]amino]chyl]amino]-]H-benzimidazol-5-yl ester
(9CI) (CA INDEX NAME)

S03546-03-0 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2[[(ethylamino)carbonyl]amino]-Hi-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

503546-04-1 CAPLUS Glycine, N-[[5-[[4-(cyclopentylamino)phenyl]sulfonyl]oxy]-lH-benzimidazol-2-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

503546-09-6 CAPLUS
Benzenezulfonic acid, 4-(cyclopentylamino)-, 2[[(cyclobutylamino)carbonyl]amino]-H-benzimidazol-5-yl ester (9CI) (CA
INDEX NAME)

503546-10-9 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[(4-pyridinylmethyl)amino]carbonyl]amino]-1H-benzimidazol-5-yl ester (9CI)(CA INDEX NAME)

503546-11-0 CAPLUS
Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-[[[[],l-dimethylethyl]amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

IT 503545-77-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (reactant; preparation of 2-(acylamino)-5-(benzenesulfonyloxy)benzimidazole compds. as inhibitors of cyclin-dependent kinases for treatment of cancer)

RN 503545-77-5 CAPLUS

ANSWER 4 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-((methoxycarbonyl)amino)-lH-benzimidacol-5-yl seter (9CI) (CA INDEX NAME)

IT 503545-82-2, N-[5-(4-Cyclopentylaminophenylsulfonyloxy)-lHbenzimidazole-2-yl]amine
RL: RCT (Reactant): RACT (Reactant or reagent)
(reactant): repearation of
2-(acylamino)-5- (benzenesulfonyloxy)benzimidazole
compds. as inhibitors of cyclin-dependent kinases for treatment of
cancer]
RN 503545-82-2 CAPLUS
CN Benzenesulfonic acid, 4-(cyclopentylamino)-, 2-amino-lH-benzimidazol-5-yl
ester (9CI) (CA INDEX NAME)

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

(Continued)

L4 ANSWER 5 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
137:273177
Method for treatment of cancer and compositions for use therein
HOFIN ASSIGNEE(S):
DOCUMENT ASSIGNEE(S):
DOCUMENT TYPE:

CODEN: PIXXO2
Patent

CODEN: PIXXO2
Patent

DOCUMENT TYPE: Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	AT	ENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		- 1	DATE	
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			CO,	CB	CIL	C2.	DE.	DK.	DM.	DZ.	EC.	EE.	ES.	FI.	GB,	GD	, GE,	GH,
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OTHER SOURCE(5): MARPAT 137:273177

The invention discloses the use of compound I [R1 = H, slkyl, alkenyl, alkenylalkyl, cycloalkyl, cycloalkylalkyl, cycloalkylalkyl, aryl etc., R2 = H, alkyl; R3 = H, alkyl, alkenyl, alkenylalkyl, cycloalkylalkyl, cycloalkylalkyl, cycloalkylalkyl, cycloalkylalkyl, cycloalkylalkyl, aryl, arylalkyl etc.] for the treatment of a tumor in a subject.
90509-02-7, Luxabendazole
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(treatment of cancer and compns. for use therein)
90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-{(methoxycarbonyl)amino}-lH-benzimidazol-5-yl ester (9C1) (CA INDEX NAME)

L4 ANSVER 6 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
138:34552
AUTHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
PUBLISHER:
DUBLISHER:
DUBLISHER:
DUBLISHER:
DOCUMENT TYPE:

CORPORATE SOURCE:
AND COPYRIGHT 2004 ACS on STN
ACCES CAPLUS
138:34552
ANTHOR (S):

PUBLISHER: Bisevier Science B.V.

CODEN: HNURANY ISSN: 0027-5107

PUBLISHER: Elsevier Science B.V.

Journal

LANGUAGE: English

AB The metabolism of 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline (MeIQx) and 2-amino-1-methyl-6-phenylimidazo[4,5-f]quinoxaline (MeIQx) and 2-amino-1-methyl-6-phenylimidazo[4,5-f]quinoxaline (MoNR-MeIQx) and 2-(hydroxyamino)-1,8-dimethylimidazo[4,5-f]quinoxaline (MONR-MeIQx) and 2-(hydroxyamino)-1-methyl-6-phenylimidazo[4,5-f]quinoxaline (MONR-MeIQx) and 2-(hydroxyamino)-1-methyl-6-phenylimidazo[4,5-f]quinoxaline (MONR-MeIQx) and 2-(hydroxyamino)-1-methyl-6-phenylimidazo[4,5-f]quinoxaline; Byridine (MONR-MeIQx) and 2-(hydroxyamino)-1-methyl-6-phenylimidazo[4,5-f]quinoxaline; Byridine (MoNR-MeIQx) and 80-glucuronide and N2- and N3-glucuronide conjugates, resp. These products accounted for as much as 10% of the amount of HeIQx and 60% of PhIP added to human hepatocytes. Significantly lower ants. of these products were formed in rat hepatocytes. The phase II conjugates
N2-3,8-dimethylimidazo[4,5-f]quinoxalin-2-y1-sulfianic acid (MeIQx-N2-SO3H) and N2-(B-1-glucosidinconyl)-2-amino-3,8-dimethylimidazo[4,5-f]quinoxalin-1-y1-sulfianic acid (MeIQx-N2-SO3H) and N2-(B-1-glucosidinconyl)-2-amino-3,8-dimethyl-MelQx,04,5-f]quinoxalin-7-one (T-oxo-MeIQx), and 2-amino-6-hydro-8-methyl-TH-imidazo[4,5-f]quinoxalin-7-one (T-oxo-MeIQx), and 2-amino-6-hydro-8-methyl-TH-imidazo[4,5-f]quinoxalin-7-one (M-desmethyl-7-oxo-MeIQx) were also identified. A novel CYPIA-Z-derived metabolite was characterized as 2-amino-3-methylimidazo[4,5-f]quinoxalin-7-one (M-desmethyl-7-oxo-MeIQx) were also identified. A novel CYPIA-Z-derived metabolite was characterized as 2-amino-3-sethylimidazo[4,5-f]quinoxalin-7-one (M-desmethyl-6-phenyino-ghe-COOH) and was the predominant metabolite formed in human hepatocytes exposed to MeIQx at levels approaching human axposure. Unlike human hepatocytes, rat cell prepns. even following pretreatment with the potent CYPIA/CYPIA2 inducer 3-methylcholanthrene (3-MC) did not produce [Ox-8-COO

ANSWER 6 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 21

L4 ANSWER 7 OF 53 CAPLUS COPYRIGHT 2004 ACS on STM ACCESSION NUMBER: 2002:574927 CAPLUS DOCUMENT NUMBER: 137:119655 TITLE: Combinations of drugs (e.g.,

137:19655
Combinations of drugs (e.g., a benzimidazole and pentamidine) for the treatment of neoplastic disorders Borisy, Alexis; Keith, Cuttis; Foley, Michael A.; Stockwell, Brent R.
Combinatorx, Incorporated, USA
PCT Int. Appl., 57 pp.
COMEN: PIXXO2 INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

3

L4 ANSWER 8 OF 53
ACCESSION NUMBER:
DOCUMENT TYPE:
DOCUMENT TYP

CODEN: CRNORD: ISSN: 0143-3334

DUBLISHER: Oxford University Press

DOUMENT TYPE: Journal

LANGUNGE: English

AB The effects of green tea on the metabolism of the food carcinogen
2-amino-1-methylimidazo[4,5-5]gutnolime (IQ) with emphasis on the
formation of the detwrified glucuronides was studied. Two groups of 20
adult make and femake Fischer 344 rats consumed 24 green tea or water for
6 wk before being administered a single dose of 40 mg/k body weight of
[2-14c][0] by oral gavage. Major metabolites in 24 h urine samples were
separated by high-performance liquid chromatoo. (HPLC). including
N-OH-IQ-N-glucuronide, 5-OH-IQ glucuronide and sulfate, IQ sulfamaate and
IQ itself. The structures of the main metabolites were established by
mobility on the HPLC and by mass spectrometry. Sulfate esters and
sulfamate were hydrolyzed by 0.1 N HCl for 15 min at 100°, yielding
5-OH-IQ-and high levels of IQ. HPLC of the resulting product showed the
N-OH-IQ-N-glucuronide and the 5-OH-IQ glucuronide, as well as IQ. The
make and female rats drinking tea displayed a significantly higher (P <
0.05) excretion of the two major glucuronides. It can be concluded that
intake of green tea increases the excretion of N-OH-IQ-N-Q-lucuronide, a
detoxified metabolite of the proximate carcinogen N-OH-IQ.
IT 122719-40-8, IQ-5-sulfate
RE: BSU (Biological study, unclassified); NFM (Metabolic formation); BIOL
(Biological study); FOPM (Pormation, nonpreparative)
(urinary excretion of N-OH-Z-amino-3-methylimidazo[4,5-f]quinoline-Nglucuronide in F344 rats by green tea)

NH Imidazo[4,5-f]quinolin-5-ol, 2-amino-3-methyl-, hydrogen sulfate

REFERENCE COUNT:

L4 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 2001:333937 CAPLUS
DOCUMENT NUMBER: 135:152102
TITLE: Green tea and the metabolism of 135:152102
Green tea and the metabolism of 2-amino-3-methylimidazo[4,5-f]quinoline in F344 rats
Embola, C. W., Weisburger, M. C., Weisburger, J. H.
Department of Pathology, New York Medical College,
Valhalla, NY, USA
Food and Chemical Toxicology (2001), 39(6), 629-633
CODEN: FCTOD7: ISSN: 0278-6915
Elsevier Science Ltd.
Journal
Familiah AUTHOR (5): CORPORATE SOURCE:

SOURCE:

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal
LANGUAGE: Registah

B The effects of green tea intake on the metabolism of 2-amino-3methylimidazo[4,5-f]quinoline ([0] in the rat was studied. IQ belongs to
a new class of mutagens and carcinogens, heterocyclic arylamines, formed
during cooking through browning meats and fish, thus, in the food chain of
most non-vegetarians. Ten adult male and female Fischer 344 rats were
placed on a 24 solution of green tea and 10 control rats were on water for 6
wk. Then, animals were administered a single dose of 40 mg/kg body weight
of

vk. Then, animals were administered a single dose of 40 mg/kg body weight [2-14C]IQ by oral gavage. Twenty-four hour urine samples were collected and metabolites were separated by HFIC and quantitated by scintillation counting. Two minor and three major metabolites were isolated, including, small quantities of IQ itself. The rats on tea showed significant differences (P < 0.05) in the recovery of the three major metabolites, namely, IQ-sulfamate, IQ-5-O-sulfate, and IQ-5-O-glucuronide, resp. Green tea, therefore, influences the manner in which the food carcinogen IQ is metabolized and excreted in urine. Formation of glucuronides, increased by green tea, represent a key means of detoxification of the heterocyclic amine, IQ. 122719-40-8, IQ-5-sulfate
RL: BSU (Biological study, unclassified); NFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
[green tea and metabolism of 2-amino-3-methylimidazo[4,5-f]quinoline in F344 rats)
[12719-40-8 CARUS]

F344 rats)
122719-40-8 CAPLUS
3H-Imidazo[4,5-f]quinolin-5-ol, 2-amino-3-methyl-, hydrogen sulfate
(ester) (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 2001:136331 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 134:321913

ACCESSION NUMBER:

DOCUMENT NUMBER:

134:321913

TITLE:

Retabolism of 2-amino-3, 8-dimethylimidazo[4,5-f]-quinoxaline in human hepatocytes: 2-amino-3-methylimidazo[4,5-f]-quinoxaline-8-cacboxylic acid Is a major detoxication pathway caralyzed by cytochrome P450 1A2

AUTHOR(S):

Langoucet, Sophie, Welti, Dieter H.; Kerriguy, Nathalar, Fay, Laurent B.; Huynh-Ba, Tuongr Markovic, Jovankar Guengerich, F. Peter Guillouzo, Andrer Turesky, Robert J.

CORPORATE SOURCE:

INSERVI U456 Faculte de Pharmacie, Universite de Rennes I, Rennes, 35041, Fr. Covicology (2001), 14(2), 211-221

COUNTIER:

COEMICER:

COEMICER CARDOLIST F. Covicology (2001), 14(2), 211-221

LANGUAGE:

DOCUMENT TYPE:

JOURNAL SOURCE:

INSERVI U456 Faculte de Pharmacie, Universite de Rennes I, Rennes, 35041, Fr. Covicology (2001), 14(2), 211-221

LANGUAGE:

American Chemical Society

JOURNAL SOURCE:

FUELISHER:

American Chemical Society

JOURNAL SOURCE:

Language Part Market Part Covicology (2001), 14(2), 211-221

LANGUAGE:

AB Hetabolic pathways of the mutagen 2-amino-3, 8-dimethylimidazo[4,5-f]

Liquinoxaline (NeIQS) remain incompletely characterized in primacy human hepatocytes. Six metabolites were characterized by U4 and mass spectroscopy. Novel metabolites were characterized by U5 and mass spectroscopy. Novel metabolites were addol. characterized by IH NNR spectroscopy. Novel metabolites were addol. characterized by IH NNR spectroscopy. The carcinogenic metabolite, 2-(hydroxyamino)-3,8-dimethylimidazo(4,5-f]quinoxaline, Which is formed by cytochrome P 450 1A2 (P 450 1A2), was found to be transformed into the N2-quincuronide conjugate, N2-f6,8-dimethylimidazo(4,5-f1quinoxaline-2-y1)sulfamic acid and N2-f6-g-glucosiduronyl)-2-amino-3,8-dimethylimidazo(4,5-f1quinoxaline-2-y1)sulfamic acid and N2-f6-glucosiduronyl)-2-amino-3,8-dimethylimidazo(4,5-f1quinoxaline-2-y1)sulfamic acid and N2-f6-g-glucosiduronyl)-2-amino-3,8-dimethylimidazo(4,5-f1quinoxaline-2-y1)sulfamic acid and N2-f6-g-glucosiduronyl)-2-amino-3,8-dimethylimidazo(4,5-f1quinoxaline-2-y1)s

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative) (metabolism of aminodimethylimidazoquinoxaline in human hepatocytes) 130146-79-1 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

AUTHOR(S):

AUTHOR(S):

CORPORATE SOURCE:

CORPORATE SOURCE:

SOURCE:

CORPORATE SOURCE:

SOURCE:

CORPORATE SOURCE:

AUTHOR(S):

AUTHOR(A):

AUTHOR(S):

AUTHOR(S):

AUTHOR(S):

AUTHOR(S):

AUTHOR(S):

AUTHOR(A):

AUTHOR(S):

AUTHOR(A):

AUTHOR(S):

AUTHOR(A):

AUTHOR(S):

AUTHOR(A):

pretreated

for 48 h with 0.1, 1, or 5 µM furafylline (from left to right in each histogram), and the amts. of the various MeIQx metabolites were calculated

a percentage of (A) 10 or (B) 1 μ M MeIQ κ used for the treatment. Two independent analyses were performed, and the estimation of metabolite

independent analyses were performed, and the estimation of metabolite formation
was within 151. One-way ANOVA (p < 0.01) for IQX-8-COOH, HON-MeIQX-N2-Gl, and MeIQX at 1 and 10 µM MeIQX and 7-oxo-MeIQX at 1 µM MeIQX as a function of furafylline."

IT 130146-79-1
RL: BSU (Biological study, unclassified); FMU (Formation, unclassified); BIOL (Biological study); FGNM (Formation, nonpreparative)
(metabolism of aminodimethylimidazoquinoxaline in human hepatocytes (Erratum))
RN 130146-79-1 CAPLUS
CN 3H-Imdiazo14,5-F1Quinoxalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

ANSWER 11 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) 3H-Imidazo[4,5-f]quinoxalin-5-01, 2-amino-3,8-dimethyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998.476162 CAPLUS
DOCUMENT NUMBER: 129:197544
129:197544
Phatmacokinetics of Intravance 129:197544
Pharmacokinetics of intravenous luxabendazole in rabbits: influence of the enterohepatic circulation Alvarez-Bujidos, Lucias Ottlz, Ana I.; Holina-Hartinez, Irene T.; Cubria, Carloss Ordonez, David AUTHOR (5):

AUTHOR(S):

Alvarez-Bujidos, Lucias Ortiz, Ana I.;

Holina-Martinez, Irene T.; Cubria, Carlos; Ordonez,
David

CORFORATE SOURCE:

Departamento de Fisiologia, Farmacologia y

Toxicologia, Facultad de Veterinaria, Universidad de
Leon, Leon, E-24071, Spain

SOURCE:

Biopharmaceutics & Drug Disposition (1998), 19(5),
341-347

CODEN: BDDID8; ISSN: 0142-2782

FUBLISHER:

Journal

LANGUAGE:

AB Luxabendazole (LBZ) is a new benzimidazole carbamate chemotherapeutic
agent, which has proved to be very effactive against adult and immature
stages of the major gastrointestinal nematodes, trematodes and cestodes.

While information on the efficacy of LBZ in several animal species is
available, there seems to be no published information describing the
disposition kinetics in any of them. As a part of the clin. development
of luxabendazole, the pharmacokinetics of a single i.v. dose was
investigated in parasite-free rabbits. Secial blood samples were
collected at timed intervals for IZ h following administration of the
dose, and concns. in plasma were determined by a sensitive and specific HPLC
method. Published data on LBZ point to the possible existence of an
enterohepatic cycle (EHC), and so, it seemed appropriate to carry out two
different forms of test. In the first, the possible existence of an
enterohepatic cycle (EHC), and so, it seemed appropriate to carry out two
different forms of test. In the first, the possiblity of intestinal
resorption of LBZ excreted via the bile was allowed for (Treatment 1),
while in the second it was interrupted by the oral administration of
activated charcoal (Treatment 2). In both cases the animals were given a
single dose of 10 mg kg-1 of LBZ iv. (i.v). Comparison of the streas under
the curve (AUCs) of LBZ concns. in plasma samples taken from the animals
reacelving each treasiment showed in Treatment 1 to an ED of IJ-9 mg
kg-1 through recycling of LBZ. With Treatment 2 a bicompartmental
distribution model for this drug was confirmed, together with high
apparent distribution vols.: Vc = 1.

REFERENCE COUNT:

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
1998:455143 CAPLUS
129:56935
121:56935
Veterinary formulation of benzimidazole derivative
endoparasiticides for topical application
Decriee, Guy: Plat, Jean Philippe Robert Charles:
POTAMENT ASSIGNEE(S):
Victor S. A., Fr.
SOURCE:
CODDN: PROMISE.

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE
19961119
19961119

NRITY APPLN. INTO:

The title formulations comprise a benzimidazole endoparamiticide (owfendazole, albendazole, albendazole, sulfoxide, fenbendazole, flubendazole, mebendazole, albendazole, combendazole, title flubendazole, title anonazole, title flubendazole, title

90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-IHbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

L4 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1998:342251 CAPLUS
129:103768
Relations between the structure and embryotoxic action of nitrogen- and sulfur-containing organic compounds Tyurina, L. A., Zul'karnaev, T. R., F. Solominova, T. S., Tyurin, A. A., Shatmukhametova, R. Kh., Filyugin, V.
CORPORATE SOURCE:

SOURCE:

Nauchno-Issled. Tekknol. Inst. Gerbitsidov i Regulyatorov Rosta Rastenii, Ufa, Russia Khimiko-Farmatnevticheskii Zhural (1998), 32(2), 21-27
CODEN: KHEZAN; ISSN: 0023-1134

CODEN: KHFZAN: ISSN: 0023-1134 Izdatel'stvo Folium

PUBLISHER:

PUBLISHER: Izdatel'stvo Folium

DOCUMENT TYPE: Journal

ANGUAGE: Russian

The authors presented the results of the anal. of the structureembryotoxicity relationships based on the use of the computer program
SARD. Preparation of the novel anthelminic biphen (VK-40) is described.

If 90509-02-7

RE: ADV (Adverse effect, including toxicity); PRP (Properties); BIOL
(Biological study)

(relations between the structure and embryotoxic action of nitrogenand sulfur-containing organic compds.)

RN: 90509-02-7 CAPLUS

OR Benzenesulfonic acid, 4-fluoro-, 2-{(methoxycarbonyl)amino]-IHbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 15 OF 53

ACCESSION NUMBER:
DOCUMENT NUMBER:
1997:795227 CAPLUS
128:110279
A new in vitro assay of benzimidazole activity against adult Oesophagostomum dentatum
Petersen, Mads Bjelke: Friis, Christian: Bjorn, Hencik
Department of Pharmacology and Pathobiology,
Copenhagen, DK-1870, Den.
International Journal for Parasitology (1997), 27(11),
1333-1339
CODEN: JBYRBT, ISSN: 0020-7519

1333-1339
CODEN: IJPYBT: ISSN: 0020-7519
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new in vitro assay of benzimidazole activity against adult
Oesophagostomum dentatum is described. The method is based on the ability
of O. dentatum to migrate through polyamide nets after exposure to various
concns. of benzimidazole. To determine an appropriate mesh size, control

concons of benzimidazole. To determine an appropriate mesh size, control of concons of benzimidazole. To determine an appropriate mesh size, control and worms exposed to 10 µM exfendazole for 24 h were allowed to migrate through nets with various mesh sizes (300-500 µm) for up to 1 h. A mesh size of 350 µm and migration periods of 10, 20 and 30 min were selected. Exposure to exfendazole at 10 µM for 24, 48 and 72 h inhibited the migration in a time-dependent manner. After 72 h of exposure and with a 20-min migration period, the EC50 of exfendazole for 0. dentatum vas 0.564 µM. In further studies the activities of albendazole sulfoxide, albendazole, cambendazole, fenbendazole, findendazole, fundendazole, cambendazole, fundendazole, parbendazole, luxabendazole were compared. The worms were exposed to each drug at two concons. (0.1 and 3.16 µM) for 72 h. At 3.16 µM there were no significant differences in the activity of the drugs. At 0.1 µM significant differences in activity were found. Albendazola sulfoxide and exfendazole were poor inhibitors of migration compared with their parent compds., albendazole and fenbendazole.

90509-02-77, Luxabendazole were poor inhibitors of migration compared with their parent compds., albendazole and fenbendazole.

80509-02-77, Luxabendazole, disological activity or effector, except adverse); (Analytical study); BIOL (Biological activity or effector, except adverse); (in vitro assay of benzimidazole activity against adult Oesophagostomum dentatum)

90509-02-7 CAPBUS

Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl) amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 16 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) L4 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997: 737711 CAPLUS
DOCUMENT NUMBER: 128:43392
Pharmacokinetics of luxabendazole after oral and
intravenous administration to sheep
AUTHOR(S): Ortiz, Ana 1. Alvarez-Bujidos, Lucias Ferre, Ignacio:
Ordonez, David
CORPORATE SOURCE: Departamento de Fisiologia, Farmacologia y
Toxicologia, Facultad de Veterinaria, Universidad de
Leon, Leon, E-24071, Spain
American Journal of Veterinary Research (1997),
58(11), 1263-1266
CODEN: AVVRAH: 155N: 0002-9645
PUBLISHER: American Veterinary Medical Association
DOCUMENT TYPE: Journal LANGUAGE: English
The author's determined the pharmacokinetics of luxabendazole after oral and
IV administration to 7 clin. normal female Merino sheep between 9 and 12 mo old. Pharmacokinetics were determined after oral and IV administration of luxabendazole at a dose of 10 mg/kg of body veight Serial blood samples

collected for 56 h after administration. Plasma conchs. of luxabendazole were determined by high-pressure liquid chromatog. After IV administration, elimination of luxabendazole was slow, with a mean half-life of 8.72 h. Mean steady-state volume of distribution and mean distribution volume during the elimination phase were 3.18 and 3.10 L/kg, resp. Mean clearance was 0.24 L/kgh, and mean area under the concentration-time curve was 41.89 mg·h/L. After oral administration, luxabendazole was slowly absorbed from the gastrointestinal tract. Mean absorption half-life was 2.26 h. Peak plasma concentration was 0.50 µg/mL and was detected 14 to

after drug administration. Hean area under the concentration-time curve was 12.03 mg·h/L. Hean bioavailability was 291. The results suggest that luxabendazole is moderately absorbed from the gastrointestinal tract in sheep, is widely distributed into extravascular compartments, and is cleared slowly. Determination of pharmacokinetic parameters is the first

step in determining a safe and efficacious dosage regimen for luxabendazole in

sheep.

If 90509-02-7, Luxabendazole
RL: BPR (Biological process): BSU (Biological study, unclassified): BIOL
(Biological study): PROC (Process)
(luxabendazole pharmacokinetics after oral and i.v. administration to sheep)
RN 90509-02-7 CAPLUS

Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171:299526
Hethod for promoting hair, nail, and skin keratinization
INVENTOR(S):
PATENT ASSIGNEE(S):
Schick, Mary P.
Schick, Mary P.
SCHICK, Mary P.
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
Patent

L4 ANSWER 17 OF 53
CAPLUS COPYRIGHT 2004 ACS on STN
L97:655405 CAPLUS
L97:655405 CAPLUS
L97:655405 CAPLUS
L97:656405 CAPLUS
L97:666405 C English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. KIND DATE PATENT NO. WO 1997-US3919

W0 9735540 A1 19971002 W0 1997-US3919 19970313
W: CN, JP
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
US 5961142 A 19990119 US 1996-621473 19960325
ER 896517 A1 19990217 EP 1997-915037 19970313
R: AT, CH, DE, GB, LI, LU, IE
PRIORITY APPLN. INFO::
US 1996-621473 A 19960325
W0 1997-US3919 W 19970313 19970313

EP 896517

Al 19990217

EP 1997-915037

Al 19970213

RITY APPLN. INFO.:

US 1996-621473

A 19960325

WO 1997-US3919

I 19970313

A method for promoting keratinization of the hair, nails, and skin on the body of an animal or human comprises administration of a therapeutic amount of a benzimidazole either systemically or directly to the site on the body at which keratinization is desired. The method is useful for the treatment of a wide variety of hair loss disorders in humans such as alopecia, is useful for the treatment of hair loss disorders in humans such as alopecia, is useful for the treatment of hair loss disorders in animals, is useful for enhancing the strength and length of fingernalls and toenails in humans, and is useful for enhancing the strength and length of claws, horns, hooves and antlers in animals. The method is also useful for the topical treatment of fungal infections, for skin replacement or grafting, and for wound healing. Oral and topical administration of fenbendazole to hairless rats resulted in promoting hair growth on the face, lateral thorax and lateral abdomen by day 7.

90509-02-7, Luxabendazole

RL: BUU (Biological use, unclassified): THU (Therapeutic use): BIOL (Biological study): BUSE (Uses) (benzimidazoles for promoting keratinization of hair and nails and skin)

90509-02-7 CAPLUS

Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:673603 CAPLUS
DOCUMENT NUMBER: 125:316332
ITITLE: Effects of luxabendazole on the intestinal vall of
Fasciola hepatica (L.)
AUTHOR(S): Gorchilowa, L., Stotisowa, S.: Poljakova-Krusteva, O.:
Spaldonova, R.
CORPORATE SOURCE: Inst. Experimental pathol. Parasitol., Sofia, 1113,
Bulg.
SOURCE: Dokladi na Bulgarskata Akademiya na Naukite (1996),
49(1), 101-103
CODEN: DRANEH ISSN: 0861-1459
FUBLISHER: Izdatelstvo na Bulgarskata Akademiya na Naukite
DOCUMENT TYPE: Journal
LANGUAGE: Brilish
AB Rats exptl. infected with F. hepatica were treated with luxabendazole (5,
10, or 20 mg/kg). Luxabendazole had a significant effect on the
structural and functional characteristics of the intestinal wall of the
fluke. Examination of cell pathol. showed blebbing or disruption of the
microvillar membrane, an increase in autophagolysis, and development of
necrotic zones. The damage was already marked 48 h after treatment and
increased with time, being most severe at 14 days post treatment. Some
does-related differences in the extent of damage was seen at the shortest
post-treatment interval semanned (48 h), but was insignificant at the longer
post-treatment intervals (7 or 14 days).
17 90509-02-7, Luxabendazole
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified). TRU (Therapeutic use); BIOL (Biological study); USES
(Uses)

(effects of luxabendazole on intestinal wall of Fasciola hepatica (L.)) 90509-02-7 CAPLUS

Benzanesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 20 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
1995:831958 CAPLUS
123:275220
Development of a quantitative structure-activity (QSAR) model, based on molecular connectivity indexes for benzimidazole-type anthelmintics
Tello, Mitiam Corredor, Claudia C.
FOURCE: Facultad de Ciencias, Universidad Nacional, Santafe de Bogata, 14490, Colombia
Revista Colombiana de Ciencias Quimico-Farmaceuticas (1995), 23, 32-41
CODEN: RCQFAQ: ISSN: 0034-7418
Universidad Nacional de Colombia, Facultad de Ciencias, Departamento de Farmacia
DOCUMENT TYPE:

PUBLISHER: Universidad Nacional de Colombia, Facultad de Ciencias, Departamento de Farmacia
DOCUMENT TYPE: Journal
Spanish
AB In the present work a quant, relationship between the anthelmintic action and the chemical structure of benzimidazols 2-methylcarbumate 5(6) substituted group was established, using linear regression anal, and statistical criteria for the selection of the best equation. The chemical structure was quantified by the mol. connectivity method. The regression anal, shows a high correlation between the activity of 31 benzimidazols. The mol. connectivity, a theor. parameter for quantification of the chemical structure, based on the graphos theory helps to explain the dependence of the activity on the substituting groups in the 5 position. The math. model proposed helps to predict the activity of mols. structurally related. Six new mols. of a group of nine showed good activity according to this model.

11 90509-02-7, Luxabendazole
Ri. EMC (miological activity or effector, except adverse); BSU (Biological study) (development of a quant. structure-activity model based on mol. connectivity indexes for benzimidazole-type anthelmintics)

RN 90509-02-7 CAPIUS

RN 90509-02-7 (PRPUS)

RN 90509-02-7 (PRPUS)

- O H NH- C- OMe

L4 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1996:97494 CAPLUS COCUMENT NUMBER: 124:193439
TITLE: Bacterial mutagenic evaluation

Bacterial mutagenic evaluation of luxabendazole, a new broad spectrum antholmintic, with the Salmonella typhimurium His- and the Escherichia coli Trup-reversion tests

reversion tests
Ortiz, Ana I., Pollastrini, M. Teresa Barea, Martaj
Ordonez, David
Fac. Veterinaria, Univ. Leon, Leon, 24071, Spain
Mutagenesis (1996), 11(1), 27-31
CODEN: MUTAEX; ISSN: 0267-6957
Oxford University Press AUTHOR (S):

CORPORATE SOURCE:

PUBLI SHER:

DOCUMENT TYPE: LANGUAGE:

ISIER: Oxford University Press

University Press

Journal

LENGIST

LENGIST

LENGIST

LENGIST

LENGIST

A proved to be effective against adult and immature stages of the major gastrointestinal nematodes, trematodes and cestodes. The mutagenic properties of Luxabendazole were investigated in the in vitro Ames Salmonella and E. coli tests. The product was tested at concns. of 0.5, 5, 50, 500, 1250 and 2500 µg/plate in the TAI535, TAI538, TA98 and radio major lateral major and 0.5, 5, 50 and 500 µg/plate in the WP2, WP2 urvA- and its pRM 101-containing derivative CM891

urvA- pXM1010) strains of Escherichia coli, with and without S9 microsomal activation (post-mitochondrial liver fraction from Wistar rats pretreated with Aroclor). Pos. and neg. controls were included in each experiment

the present study it can be concluded that Luxabendazole, over a dose range of 0.5-2500 µg/plate, is unlikely to present a mutagenic hazard, as demonstrated by the Ames test.

90509-02-7, Luxabendazole
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (bacterial mutagenic evaluation of luxabendazole, a new broad spectrum anthelmintic, with the Salmonella typhimurium His- and the Escherichia coli Trup- reversion tests)
90509-02-7 CAPLUS
REFERENCE (English of the Capture of the

Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]~1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 21 OF 53
CAPLUS COPYRIGHT 2004 ACS on STN
ACCRSSION NUMBER:
1995:654391 CAPLUS
123:76849
Hetabolism of the food-derived carcinogen
2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline (MeIQx)
in nonhuman primates
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
SOURCE:
SOURCE:
SOURCE:
CORPORATE SOURCE:
SOURCE:
SOURCE:
SOURCE:
OCORPORATE SOURCE

Oxford University Press

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

UAGE: English
The metabolism and disposition of the food mutagen and rodent carcinogen

DOCUMENT TYPE: Journal
LANGUAGE: English
AB The metabolism and disposition of the food mutagen and rodent carcinogen
MeIQx
was investigated in cynomolgus monkeys. Monkeys were administered a
single dose of radiolabeled [14C]MeIQx (2.2 or 50 pmol/kg). Peak blood
levels of radioactivity were observed within 1-3 h after dosing and declined
rapidly thereafter. Eight metabolites and the parent compound were detected
in urine by RFILC. The parent compound accounted for .apprx.15-251 of the
dose excreted in the urine. Seven MeIQx urinary metabolites were
identified. Five metabolites were identical to MeIQx metabolites
previously found in rats: MeIQx-N2-glucuronide, MeIQx-N2-sulfamate,
MeIQx-5-sulfate. Cynomolgus monkeys, however, metabolized MeIQx to a
novel glucuronide conjugate of MeIQx not found in rats. Based upon mass
spectroscopy and proton NMR analyses, the structure of this metabolite was
consistent with an NI-glucuronide of MeIQx. This metabolite was the major
urinary metabolite found in monkeys, accounting for 31-374 of the dose
excreted in the urine over a 24 h period. One addnl. metabolite
identified in urine and feces of MeIQx treated cynomolgus monkeys, that
has not been found previously in any other animal model, was 7-oxo-MeIQx,
a likely enteric bacterial metabolite of MeIQx. "Oxo-MeIQx accounted for
20-25% of the dose of MeIQx found in the urine and was the major fecal
metabolite. The N2-glucuronide conjugate of the carcinogenic metabolite
2-hydroxyamino-3.8-dimethylimidazo(4,5-f]quinoxaline (NHOM-MeIQx) was not
detected in urine or bile of monkeys, even after 10 daily dose of MeIQx
(100 µmoI/kg) were given. The results indicate that MeIQx is
metabolically processed in monkeys vis multiple pathways of
detoxification. However, MeIQx is poorly metabolically activated via
cytochome P 450 mediated N-oxidation The in vivo metabolism of MeIQx in
cytochome P 450 mediated N-oxidation The in vivo metabolism of MeIQx in
cytochome P 450 mediated N-oxidation of the food-derived ucriniday. MFM (Metabolic formation

130146-79-1 CAPLUS 3H-Imidazo(4,5-f]quinoxalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen sulfate (ester) (SCI) (CA INDEX NAME)

ANSWER 22 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN CRN 90509-02-7 CMF C15 H12 F N3 05 S (Continued)

CH 2

CRN 60200-06-8 CMF C8 H8 C13 N3 O4 S2

161829-01-2 CAPLUS
Benzenesulfontc acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-lHbenzimidazol-5-yl ester, mixt. with 5-chloro-6-(2,3-dichlorophenoxy)-2(methylthio}-lR-benzimidazole (9CI) (CA INDEX NAME)

CM 1

CRN 90509-02-7 CMF C15 H12 F N3 O5 S

CM 2

CRN 68786-66-3 CMF C14 H9 C13 N2 O S

L4 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1995:444225 CAPLUS COCUMENT NUMBER: 122:205174 TITLE: Symergistic anthelmintic compositions of the composition of

122:205174
Symegistic anthelmintic compositions
Borsy, Joseph Coloman
Borsy, Joseph Coloman
Borsy, Joseph Coloman
Sustralian National University, USA: State of New
South Wallian
FUT Int. Appl., 37 pp.
CODEM: PIXMU2
FUT Int. Appl., 37 pp.
FUT Int. Appl., 37 pp. INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9428887	A1	19941222	WO 1994-AU315	19940614
. W: AU, NZ, US				
RW: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IE, IT, LU, MC,	NL, PT, SE
AU 9469654	A1	19950103	AU 1994-69654	19940614
AU 679753	B2	19970710		
ZA 9404191	λ	19950208	ZA 1994-4191	19940614
EP 710105	A1	19960508	EP 1994-918238	19940614
EP 710105	B1	20030730		

P710105
B1 20030730
R: BE, CH, DE, ES, FR, GB, IE, IT, LI
PRIORITY APPLN. INFO:

A method for the control of Fasciola spp. and other helminths in an animal, particularly a ruminant animal, comprises the administration to the animal of at least two anthelmintic-active drugs, optionally together with an acceptable carrier or diluent, to exert a synergistic effect in the animal. The anthelmintic-active drugs, optionally together with an acceptable carrier or diluent, to exert a synergistic effect in the animal. The anthelmintic-active drugs are selected from the group consisting of halogenated monophenols or bisphenols, salicylanilides, benzene sulfonamides, halogenated benzimidazoles, benzimidazole carbamates. Synergistic compos. comprising these anthelmintic-active drugs are also disclosed. Efficacy of synergistic combinations against F. hepatica are reported.

17 90509-02-7, Luxabendazole 161799-20-0

161829-01-2 161829-02-3
RL: THU (Therapeutic use): BIOL (Biological study): USES (Uses)
 (anthelmintic synergistic combinations)
90509-02-7 CAPUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-lHbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

161799-20-8 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-1Hbenzimidazol-5-yl ester, mixt. with 4-amino-6-(trichloroethenyl)-1,3benzenedisulfonamide (9CI) (CA INDEX NAME)

CH 1

ANSWER 22 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

$$C1 \xrightarrow{C1} C1 \xrightarrow{R} SM$$

161829-02-3 CAPLUS

Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-lHbenziadazol-5-yl ester, mixt. with N-[5-chloro-4-[(4chlorophenyl)cyanomethyl]-2-methylphenyl]-2-hydroxy-3,5-dijodobenzamide
(9CI) (CA INDEX NAME)

ON 1

CRN 90509-02-7 CMF C15 H12 F N3 O5 S

2

CRN 57808-65-6 CMF C22 H14 C12 12 N2 O2

Controlled-release antiparasitic compositions
Hennessy, Desmond Ronald: Ashes, John Richard: Scott,
Trevor William: Gulati, Suresh Kumar: Steel, John INVENTOR(S):

Winston Commonwealth Scientific and Industrial Research Organization, Australiar Meat Research Corp. PCT Int. Appl., 29 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. W: AT, AU, BB, BC, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KB, KP, KR, KZ, LK, LU, LV, MD, MG, NN, MW, NL, NO, NZ, PL, PT, HO, NU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VW NR, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, UM, MC, NL, PT, SE, CA 2163455 19940524 AI 19941209 CN 1994-1902 19940524 AU 467902 AI 19941209 CN 1994-6627 19940524 AU 467062 BZ 19980219 BR 9406627 A 19940524 BR 9406627 PATENT NO. KIND DATE DATE PRIORITY APPLN. INFO.:

R: DE, ES, FR, GB, IT

ES 2170099

T3 20020801

ES 1994-916095

19940524

ZA 9403647

A 19950127

ZA 1994-3647

19940525

US 5840324

A 19981124

US 1996-894755

19960313

AITT APPLM. INFO.:

All 1993-9030

A 19930526

WO 1994-AUZT

The delivery of anti-parasitic agents to cuminant animals in a controlled manner to enable the agent to have maximum effect on the parasite for long times than is possible with conventional formulations is described. The compans comprise a benzindarole, macrocyclic lactone, organophosphate, salicylandide/subscituted phenol, tetramisole or pyrindidne anti-parasitic agent, dispersed in a medium the solubility characteristics

which are such as to ensure that, following oral administration, controlled mmts. of the anti-parasitic agent become available to the parasite, either directly or by absorption into the ruminant blood plasma, during passage of the composition through the rumen, the abonasum and the intestine. A 3-stage release antiparasitic formulation was prepared from benzimidazole, vegetable oil, emulsification with caseins, freeze-drying and treatment with formallin.

9509-02-7, Luxabendazole
RL: RAC (Biological activity or effector, except advecse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Controlled-release antiparasitic compns.)

95509-02-7 CAPLUS
Benzenesultonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 24 OF 53 CAPILIS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:342640 CAPILIS
DOCUMENT NUMBER: 122:122569
Effects of Luxabendazole on the spermatogenesis and ultrastructure of the spermatozoa of Fasciola hepatica
Stotisnowa, S. R.; Gorchilova, L. N.
Institute Parasitology, Bulgarian Academy Sciences,
Sofia, 113, Bulg.
Dokladi na Bulgarskata Akademiya na Naukite (1993),
46(9), 97-9
COURN: DBANEH; ISSN: 0861-1459
Izdatelstvo na Bulgarskata Akademiya na Naukite
DOCUMENT TYPE:

ISHEM: COURT ISANGER ISSN: USD-1239

ISHEM: IZGATE|STOO AB Bulgarskata Akademiya na Naukite

JOURNAI

JOURNAI

JOURNAI

FORTY-eight h after administration of luxabendazole (5 or 10 mg/kg) to

rats saptl. infected with Fasciola hepatica, the occurrence of abnormal

spermatozoa of the F. hepatica was quite frequent. These results may

explain the reduced fecundity of luxabendazole-treated flukes.

90509-02-7, Luxabendazole

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)

(effects of luxabendazole on the spermatogenesis and ultrastructure of

spermatozoa of Fasciola hepatica in relation to anthelmintic activity)

90509-02-7 CAPLUS

Benzenesulfonic acid, 4-fluoro-, 2-{(methoxycarbonyl)smino}-lH
benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 23 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 25 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:291828 CAPLUS
DOCUMENT NUMBER: 122:99126

AUTHOR(S): Species differences in metabolism of heterocyclic aromatic amines, human exposure, and biomonitoring Turesky, Robert J. 7, Gross, Gian A., Stillvell, W. G., Skipper, Paul L., Tannenbaum, Steven R.
Nestle Research Centre, Nestec Ltd., Lausanne, 1000/26, Switz.

SOURCE: Environmental Health Perspectives Supplements (1994), 102 (SUPPL. 6), 47-51
CODEN: EMPSEON ISSN: 1078-0475
DOCUMENT TYPE: Journal Lancurage Supplements (1994), 102 (SUPPL. 6), 47-51
CODEN: EMPSEON ISSN: 1078-0475
ADB Heterocyclic aromatic amines (BHAs) are animal carcinogens and suspected human carcinogens which are formed in cooked foods at the low ppb level.
HAAs in cooked meats were purified by either immunosffinity chromatog, or solid phase tandem extraction, which allowed for the simultaneous anal. of

solid phase tandem extraction, which allowed for the simultaneous anal. of the shall provide the simultaneous anal. The state of the shall provide the simultaneous anal. The shall provide the

RE: BPN (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process) (urine; species differences in metabolism of heterocyclic aromatic

es and human exposure and biomonitoring) 130146-79-1 CAPIUS 3H-Imidaz0(4,5-E]quinoxalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

ANSWER 25 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)

L4 ANSWER 27 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
1NVENTOR(5):
PATENT ASSIGNEE(5):
SOURCE:
COCUMENT TYPE:
LANGUAGE:
PAILLY ACC. NUM. COUNT:
PAILLY ACC. N

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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PAT		NO.					DATE			nr r	DI CA		JI 1	٠.					
		798															9940	202	
WO	941	1798			-0.		1934	0010		•~.	1,,,,		DEJ.	DE.	TC.	wr [^]	GB.	TIT I	
	w:	AT,	ΑU,	BB,	BG,	BK,	BY,	CA,	un,	Cn	, 02		ue,	UK,	63,	F1.	00,	110,	
		JP,	KP,	KR.	KZ.	LK,	LU,	LV,	MG,	MN	, M	, ,	ΝL,	NO,	NZ,	PL.	PT,	RO,	
		RU.	SD,	SE.	SK.	UA,	US,	UZ,	VN										
	RW:	AT.	BE.	CH.	DE.	DK,	ES,	FR,	GB,	GR	, II	5,	IT,	LU,	MC,	NL,	PT,	SE,	
		BF.	BJ,	CF.	CG,	CI,	CM,	GA,	GN,	MI.	, M	١, ١	NE,	SN,	TD,	TG			
CA	2153	1785			AA		1994	0818		CA	1994	1-2	153	785		1	9940	202	
M	9450	744			A1		1994	0829		ΑU	1994	I-5	974	4		1	9940	202	
8.11	6756	226			B2		1997	0220											
71	9400	718			A .		1995	0802		ZA	1994	1-7	18			1	9940	202	
ED	6931	518			A1		1995	1122		EP	1994	-9	057	75		1	9940	202	
EF	002.	λT,	DV	cu	מת	nv	VC.	FD	GB.	GR	. 11	ē	TT.	LT.	LU.	MC.	NL.	PT.	SE
nn		6244				DA,	1996	0206	00,	BB.	199	1-6	244		,	1	9940	202	
BR.	310	7267								CN	199	-1	910	91		ī	9940	202	
CN	111	00089			72		1007	0107											
RU	212	1837																	
US	574	4494			λ		1998	0428											
ORIT	Y API	PLN.	INFO	. :															
										WO	199	4-G	B19	3		W 1	9940	202	
													_				-1-		

The anthelmintic efficacy in animals and humans of a benzimidazole such as fembendazole (I), is potentiated by use with piperonyl butoxide (II) or other methylenedioxyphenyl synergists. Lambs were fed an oral dose of 6000 I-cesistant Ostertagia circumcincta and 28 days after infection animals were treated with 5mg I/kg and 63 mg II/kg and were killed on day 35 and nematode egg nos. were determined in feces. Neither I or II alone significantly reduced the number of O. circumcincta in the abomasa of lambs while the combination of I and II reduced the number by 84.91.

90509-02-TD, Luxabendazole, mixts. with methylenedioxyphenyl AB

derivs.
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (USes)

(Uses)
[synergistic anthelmintic compns.]
90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 26 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 1995:218095 CAPLUS
DOCUMENT NUMBER: 122:272
TITLE: The intestinal absorption of lo

ACCESSION NUMBER: 1995:218095 CAPLUS
DOCUMENT NUMBER: 122:272
The intestinal absorption of luxabendazole in rats
AUTHOR(S): del Estal, J. L., Alvarez-Bujidos, M. L., Balana
Fouce, R., Ordonez, D., Prieto, J. G.
CORPORATE SOURCE: Dept. Fisiologia, Univ. Leon, Leon, E-24071, Spain
Journal of Pharmaceutical and Biomedical Analysis
(1994), 12(11), 1471-14
CODEN: JPBADA; ISSN: 0731-7085

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
English
AB Intestinal absorption of luxabendazole in rats may be due to a kinetic
mechanism of simple diffusion and therefore no energy-dependent saturable
kinetics are involved. Kinetic consts. of 2 structural analogs
(albendazole and mebendazole) were also determined and the consts. compared
with octanol/water partition coeffs.

17 90509-02-7, Luxbendazole
RL: BPR (Biological process) BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(intestinal absorption of)
RN 90509-02-7 APJUS
Energemenulfonic acid, 4-fluoro-, 2-{(methoxycarbonyl)amino]-1Hbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 27 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN

L4 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1994:548399 CAPLUS DOCUMENT NUMBER: 121:148399

TITLE:

AUTHOR(S)

121:148399
Effects of luxabendarole on the tegument of Fasciola hepatica
Stotisowa, S.R., Gorchilova, L.N.
Inst. Parasitol., Sofia, 1113, Bulg,
Journal of Helminthology (1994), 68(1), 73-80
CODEN: JOHLATT, ISSN: 0022-149X CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

MENT TYPE:

OUTLAND TYPE:

OUTLAND TO THE MENT TISSN: 0022-149X

JOHANT TYPE:

JOHANT

Mg/kg.
90509-02-7, Luxabendazole
RL: BIOL (Biological study)
(tegument damage by, in Fasciola hepatica)
90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[[methoxycarbonyl]amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 29 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 29 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
1994:298627 CAPLUS
120:298627
Process for preparing methyl [5-{4fluorobenzenesulfonyloxy) benzimidazol-2-yl] carbamate
(dabendazole)
Novacek, Alcisi Korner, Jaroslav, Hromas, Josef;
Brozek, Jiri, Danek, Jaroslav
Czech, 4 pp.
CODEN: CZXXA9
DOCUMENT TYPE:

DOCUMENT TYPE: LANGUAGE: Patent Czech

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE CS 277240
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GI В6 19921216 CS 1990-4247 CS 1990-4247 19900831 19900831

CASREACT 120:298627

The anthelmintic dabendazole (I) is prepared by reduction of 2-amino-5-(4-fluorobenzenesulfonyloxy) nitrobenzene (II) with Fe or Zn in dilute AcoR in EtoH, followed by cyclocondensation of the resultant 1,2-diamino-4-(4-fluorophenyloulfonyloxy) benzene with MecCONRCM (III) in situ. Compared to prior art methods using catalytic hydrogenation and sep. reduction and cyclization stepa, the new method is simpler and safer.

an example, II was refluxed with powdered Fe or Zn in an H2O/AcOH/EtOH

followed by addition of active t. Although.
filtrate,
and further boiling, to give after cooling 81% I, pure by chromatog.
TO 90509-02-7P, Dabendazole
RL: SPM (Synthetic preparation): PREP (Preparation)
(preparation of, via zinc or iron reduction of aminonitrobenzene
derivative)
NN 90509-02-7 CAPLUS
CN Benzenesulfonic acid, 4-fluoto-, 2-[(methoxycarbonyl)amino]-1Hbenzimidazol-5-yl eater (9CI) (CA INDEX NAME) followed by addition of active C, filtration, addition of III to the

L4 ANSWER 30 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1993:402018 CAPLUS DOCUMENT NUMBER: 119:2818 TITLE: Phase I and phase II Menobiotic

AUTHOR(S):

CORPORATE SOURCE:

SOURCE .

DOCUMENT TYPE:

ANSWER 30 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ESSION NUMBER: 1993:402018 CAPLUS
UNEDAT NUMBER: 1993:402018 CAPLUS

LE: Phase I and phase II Menobiotic reactions and metabolism of the food-borne carcinogen
2-amino-3, 0-dimethylamidazof4,5-fjquinoxaline in aggregating liver cell cultures

HOR(S): Schilter, B.; Turesky, R. J.; Juillerat, M.; Honegger, P.; Guigoz, Y.

PORATE SOURCE: Inst. Physiol., Univ. Lausanne, Lausanne, CH-1005, Switz.

RCE: Blochemical Pharmacology (1993), 45(5), 1087-96

CODEN: BCPCA6: ISSN: 0006-2952

GUACE: Journal

GUACE: Journ toxicol. ΙT

RE: FORM (Formation, nonpreparative)
(formation of, in liver cells)
130146-79-1 CAPLUS
3H-Imidazo(4,5-f]quinoxalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen sulfate
(ester) (SCI) (CA INDEX NAME)

ANSWER 31 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

L4 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2004 AC5 on STN ACCESSION NUMBER: 1993:234060 CAPLUS COCUMENT NUMBER: 118:234060 Preparation and formulation of 118:234060
Preparation and formulation of N-(2benzimidazoly1) carbamates as anthelmintics
Banks, Bernard Josephi Dutton, Christopher James;
Goudie, A.Lewander Crossan
Pfizer Ltd., UK; Pfizer Inc.
PCT Int. Appl., 30 pp.
COUEN: PIXXD2
Patent
English
1 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
	A1 19930204	WO 1992-EP1570	19920713
W: CA, JP, US			
		B, GR, IT, LU, MC, NL,	
CA 2113567		CA 1992-2113567	19920713
CA 2113567	¢ 19971125		
EP 596917	A1 19940518	EP 1992-915286	19920713
EP 596917	B1 19981028		
R: AT, BE, CH,	DE, DK, ES, FR, GE	B, GR, IT, LI, LU, MC,	NL, SE
JP 07500088		JP 1992-502566	19920713
JP 2971135	B2 19991102		
AT 172724	E 19981115	AT 1992-915286	19920713
ES 2121861	T3 19981216	ES 1992-915286	19920713
US 5538990	A 19960723		
PRIORITY APPLN. INFO.:		GB 1991-15272	
		WO 1992-EP1578	W 19920713
OTHER SOURCE(S):	MARPAT 118:234060		
G1			

Title compds. (I Rl = PhCO, PhO, alkyl, alkosy, benzazolyl, etc., R2, R3 = alkyl) were prepared as anthelmintics (no data). Thus, albendazole was N-methylated to give title compound II.
147355-27-0.
Ri: SPN [Synthetic preparation), PREP (Preparation) (preparation of, as anthelmintic)
147355-52-0. CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methosycarbonyl)methylamino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 32 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
1993:207037 CAPLUS
118:207037 CAPLUS
118:207037

DOCUMENT TYPE: Journal LANGUAGE: Regulab Age of the Shaplab Age of the

through a strong cation-exchange (SCX) column and extraction with at acetate.

HPLC with electrochem. detection provides selective and sensitive determination of 5-HBC with a detection limit of 5 µg/L. A C18 reversed-phase column was used with 0.06 M ammonium acetate solution (pH 8)-methanol (73:27) as mobile phase. The method was validated with respect to hydrolysis of urine samples, anal. recovery of spiked 5-HBC, stability of 5-HBC conjugates, limit of detection, background and precision. The overall anal. recovery from urine was better than 60%. 5-HBC, excreted in urine as a conjugate, was stable for at least one year when stored at -20°. A background of ca. 5 µg/L was detected in urine from some non-occupationally exposed persons. Between-day coeffs. of variations as calculated from the results of the stability test were 7, 4 and

IT

4% for concns. of 61, 244 and 295 µg/L 5-HBC, resp.. 51276-89-2D, conjugates ALL ANST (Analytical study) (as carbendaris metabolites in human urine, methylhydroxybenzimidazole anal. by HB/L in relation to) 51276-89-2 CAPIUS Carbamic acid. [5-(sulfooxy)-1H-benzimidazol-2-yl]-, C-methyl ester (9CI) (CA INDEX NAME)

118:75141
Entrapment by magnetic microcapaules of the protein pyrolysates 10, PhiP and Glu-P-1, and alteration of IQ metabolite exposure within the rat gastrointestinal tract by risk-modulating components of the human diet O'Neill, I. 1. Ohgaki, H.; Ellul, A.; Turesky, R. J. Int. Agency Res. Cancer, Lyon, 69372, Pr. Carcinogenesis (1992), 13(12), 2353-9
CODEN: CRNGOP; ISSN: 0143-3334 AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

CODEN: CRNGOP: ISSN: 0143-3334

JOHNST TYPE: Journal

GUAGE: English

The entrapment of haterocyclic aromatic amine gastrointestinal carcinogens

(HAMA), by retrievable semipermeable magnetic polyethyleneimine (PEI)

microcapsules was investigated in vitro and in vivo as an approach for

human biomonitoring. The 14C-labeled IQ. PhIP and Glu-P-I are adsorbed to

PEI microcapsules in vitro and can be desorbed by treatment with

methanolic ammonia. Binding of HAMA to PEI microcapsules containing copper

phthalocyanine, a moiety which reversibly binds chema. with aromatic planar

structures, vas 2- to 4-fold higher than with unmodified PEI

microcapsules. PEI microcapsules also acted as a nucleophile and trapped

the proximate carcinogenic metabolite of IQ, N-bydrowy-IQ. The entrapment

of 14C-labeled IQ and PhIF by microcapsules was investigated in vivo in

male F344 cats fed a conventional chow dict or a human dict with varying

ants. of fat and beef intake typically consumed in the UK. Animals were

adapted to human dicts which were either high (H) or Iow (L) in fat (F),

beef protein (B) and dietary fiber non-starch polysaccharide (NSP).

Microcapsule entrapment of IQ and metabolites was 0.5-2.04 of the dose and

4-fold higher in rats consuming a HF/HB/MSP dist, these being resp. putative high- and low-risk-associated

diets. In the HF/HB/MSP diet group, a higher amount of IQ metabolites were

detected in the microcapsules? a lower proportion of covalently bound

metabolites could be removed by acid hydrolysis. Urinary excretion was

2-fold greater and anal. of the urinary metabolites showed there to be

lower sulfotransferase activity than in the LF/HB/MSP group. The amount of

14C-labeled PhIP entrapped by FII microcapsules was 1.54 of the dose in

rodents fed a LF/HB/MSP human diet and binding was 7-fold higher than in

rodents fed a semi-purified diet. These results demonstrate that

microcapsules can entrap IQ and PhIF and their metabolites within the GI

tract of rodents. The ams. entrapped by peli microc

ΙŤ

relation to) 122719-40-9 CAPLUS 3M-Imidazo(4,5-f|quinolin-5-ol, 2-amino-3-methyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

L4 ANSWER 34 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
117:232345 Lavenus
Electron impact and fast atom bombardment mass
spectrometric analysis of the food-borne carcinogens
2-anino-3-methylimidazo [4,5-f] quinolaline,
2-anino-3-methylimidazo [4,5-f] quinoxaline and
their metabolites
Fay, Laurent B.; Turesky, Robert J.
Roscher Source:
Biological Hams Spectrometry [1992], 21(9), 463-9
CODEN: BIMSER; ISSN: 1052-9306

DOCUMENT TYPE: LANGUAGE:

MENT TYPE: JOURNAL DISSRIPTION: 1052-3000
JOURNAL JOURNAL COMMENT TYPE: JOURNAL COMMENT TO THE JOURNAL COMMENT TYPE: JOURNAL COMMENT TO THE JOURNAL COMMENT TYPE: JOURNAL COMMENT TO THE JOURNAL COMMENT TO THE JOURNAL COMMENT TO THE JOURNAL COMMENT TYPE: JOURNAL COMMENT TO THE JOURNAL COMMENT THE JOURNAL COMMENT TO THE JOURNAL COMMENT THE JOURNAL

130146-77-9 CAPLUS 3H-Tmidazo[4,5-f]quinoxaline-8-methanol, 2-amino-3-methyl-5-(sulfooxy)-(GCI) (CA INDEX NAME)

3H-Imidazo[4,5-f]quinoxalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen sulfate

ANSWER 33 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

ANSWER 34 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (ester) (9CI) (CA INDEX NAME) (Continued)

AUTHOR (S) :

117:28171
Metabolism of the food mutagen Z-amino-3methylimidazo[4,5-f]quinoline in nonhuman primates
undergoing carcinogen bioassay
Snydervine, Elizabeth G. Walti, Dieter H.: Fay,
Laurent B.: Wuerzner, Hans Peter: Turesky, Robert J.
Div. Cancer Etiol., Natl. Cancer Inst., Bethesda, MD,
20892, USA CORPORATE SOURCE:

50URCE: CODEN: CRTOEC, ISSN: 0893-228X

DOCUMENT TYPE: LANGUAGE:

The metabolism and disposition of the procarcinogen IQ (I) were investigated in monkeys undergoing carcinogen bloadsay and in monkeys given an acute dose of IQ. Anal. of urine, feces, and bile revealed that IQ was extensively metabolized. Metabolites resulted from cytochrome P 450-mediated ring oxidation at the C-5 position or N-demethylation, These metabolites could be further transformed by conjugation to sulfate or P-glucuronic acid. Glucuronidation and sulfamate formation at the exocyclic amine group were other major routes of metabolism Enteric eria

bacteria also contributed to IQ biotransformation by forming the 7-oxo derivative of

and N-demethyl-IQ. The metastable N2-glucuronide conjugate of the carcinogenic metabolite, Z-(hydroxyamino)-3-methyllmidazo[4,5-f]quinoline, was found in urine. Thus, metabolic activation through cytochrome P 450-mediated N-oxidation occurs in vivo and glucuronidation is a means of transport of the carcinogenic metabolite to extrahepatic tissues. 12719-40-8

RL: BIOL (Biological study)

(as aminomethylimidazoquinoline metabolite, in monkey)
122719-40-8 CARIUS
3H-Imidazo[4,5-f]quinolin-5-ol, 2-amino-3-methyl-, hydrogen sulfate
(ester) [9CI] (CA INDEX NAME)

L4 ANSWER 36 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
117:103485
DEtermination of luxabendazole in biological fluids by high-performance liquid chromatography
AUTHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
AB Luxabendazole, a new benziaddazole, is a highly potent broad-spectrum anthelmintic. A high-performance liquid chromatog, method has been developed for its determination in serum and urine samples. In order to optimize

mize the clean-up of samples the authors compared two procedures: C18 Sep-Pak cartridges and ultrafiltration through a cellulose membrane with a 30 000 relative med: mass cut-off. In order to obtain the most suitable mobile phase, the influence of pH and acteonitrile content on the capacity factor (k') was studied. Chromatog. separation and quantification were performed

reversed-phase column packed with 5-µm Nucleoil C18. The mobile phase was acetonitrile-0.05 M phosphate buffer (pH 7.0), (40:60, volume/volume). The column effluent was monitored by UV-visible spectrophotometry at 290 mm. The method shows good recovery, precision and accuracy. The lower limit of detection for luxabendazole is 15 mg/mL in serum samples and 25 mg/mL in urine samples.

90509-02-7, Luxabendazole
RL: ANT (Analyte) ANST (Analytical study)
(determination of, in urine and blood samples by HPLC)

90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-{(methoxycarbonyl)amino}-1H-benzimidazol-5-yl ester (9C1) (CA INDEX NAME)

L4 ANSWER 35 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

L4 ANSWER 37 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1992:36008 CAPLUS DOCUMENT NUMBER: 116:36008
TITLE: The effect of dose and cytochec

AUTHOR (5):

CORPORATE SOURCE:

DOCUMENT TYPE:

ESSION NUMBER: 1992:36008 CAPLUS
UNENT NUMBER: 116:36008
LE: The effect of dose and cytochrome P450 induction on the metabolism and disposition of the food-borne carcinogen 2-amino-3,8-dimethylimidazo[4,5-f]quinoxalism e(MeJQx) in the rat
HOR(S): Turesky, Robert J.: Markovic, Jovanka; Bracco-Hammer, Ingrid: Fay, Laurent B.
PORATE SOURCE: Nestle Res. Cent., Nestec Ltd., Vers-chez-les Blanc, CH-1000, Switz.
CACCInogenesis (1991), 12(10), 1847-55
CODEN: CRNGOP; ISSN: 0143-3334
UNENT TYPE: Journal
GNACE: English
Rats were given MeIQx by gavage at doses of 0.01, 0.2, and 20 mg/kg. The phase II conjugates, MeIQx-H2-zulfamate and MeIQx-M2-zulcuconide, were the predominant metabolites found in urine of noninduced animals at the highest dose treatment. Animals induced with PCB produced greater ants. of metabolites hydroxylated at the 5 position of MeIQx which were excreted as glucuronide or sulfate conjugates. At the lowest dose studied, the urinary excretion profile was nearly identical for both animal groups and cytochrome P450 induction had little influence on metabolism In contrast

cytochrome P 450 induction had little influence on metabolism In contrast high dose exposure, where sulfamate formation was a major route of detoxification, N2-glucuronide formation was the most important metabolic pathway for elimination of MeIQx at low doses. Liver microgomes transformed MeIQx to the genotoxic metabolist 2-hydroxymaino-3,8-dimethylimidazo(4,5-f]quinoxaline (INNH-MeIQx), and N-hydroxylase activity was 20-fold greater in microsomes obtained from PCB-treated animals than in untreated control animals. The increase in N-hydroxylase activity was discerned in vivo through formation of the metastable N-glucuronide conjugate of INNH-MeIQx (MeIQx-[HO-N]-Gl). This metabolite accounted for apprx.0 of the dose in bile of PCB-treated rats. In contrast, in the noninduced tat, MeIQx-[HO-N]-Gl was praferentially excreted in urine and accounted for apprx.0.2-ll of the total dose. These results demonstrate that the metabolism of MeIQx in the rat is influenced by both dose and cytochrome P 450 induction. The absence of intestinal tumors in the noninduced rat may be partially attributed to the low levels of formation and poor biliazy exerction of the N-glucuronide conjugate of the genotoxic metabolite HNOH-MeIQx.

130146-77-9 130146-79-1

RL: BIOL (Biological study)
(as Me[Qw metabolite, cytochrome P 450 and dose in relation to)
130146-77-9 CAPLUS
3H-Imidazo[4,5-f]quinoxaline-8-methanol, 2-amino-3-methyl-5-(sulfooxy)-(9C1) (CA INDEX NAME)

130146-79-1 CAPLUS

ANSVER 37 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) 3H-Imidazo(4,5-f] Quinovalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

ANSWER 38 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

L4 ANSWER 38 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:34548 CAPLUS
TITLE: 16:34548 Antipartasitic compositions containing pyraclobos and benzimidazole for animal use Parish, Roger Chapin, Frederic W.; Kono, Yoshiaki; Tsukui, Makoto SmithKline Beecham Corp., USA; Takeda Chemical Industries, Ltd.

SOURCE: CODEN: PIXXOZ
DOCUMENT TYPE: Antipartasitic compositions containing pyraclobos and benzimidazole for animal use Parish, Roger Chapin, Forderic W.; Kono, Yoshiaki; Tsukui, Makoto SmithKline Beecham Corp., USA; Takeda Chemical Industries, Ltd.

FOT Int. Appl., 46 pp.
CODEN: PIXXOZ
Patent
LANGUAGE: English
FAMILY ACC: NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC: NUM. COUNT: PATENT INFORMATION:

	TENT NO.				APPLICATION NO.		DATE
	9108669		A1	19910627			19901109
				JP, KR, US			
					GB, GR, IT, LU, NL,		
JP	04009333		A2	19920114	JP 1990-186813		19900713
· EP	505389		Al	19920930	EP 1990-917621		19901109
EP	505389		B1	19970514			
	R: AT,	BE, CH	, DE, I	OK, ES, FR,	GB, IT, LI, LU, NL,	SE	
BR	9007951		A	19921110	BR 1990-7951		19901109
HU	62474		A2	19930528	HU 1992-2055		19901109
JP	05504334		T2	19930708	JP 1991-500559		19901109
AU	654942		B2	19941201	AU 1991-68715		19901109
AT	152879		E	19970515	AT 1990-917621		19901109
ES	2102370		Т3	19970801	ES 1990-917621		19901109
ZA	9010174		A	19910925	ZA 1990-10174		19901218
CN	1053549		Α	19910807	CN 1990-110426		19901219
CN	1173331	,	A	19980218	CN 1997-105431		19970526
PRIORIT	Y APPLN.	INFO.:			JP 1989-330224	A	19891219
					JP 1989-338973	A	19891226
					JP 1990-113147	A	19900427
					JP 1989-330224		19891219
					JP 1990-186813		19900713
	,				WO 1990-US6595	¥	19901109

OTHER SOURCE(S): MARPAT 116:34548

AB Antiparasitic compns. for animal use contain pyraciofos (I) or related compds, with/without benzimidazole derivs. The compns are effective in the prevention, treatment, and removal of internal and external parasites, and especially effective in killing benzimidazole—resistant helminths at

and especially effective in killing benzimidazole-resistant helminths at dosage levels nontoxic to the animals. Thus, worm-free sheep were infested with benzimidazole-resistant Hasemonchus contortus, Ostertagia circumcincta, or Trichostrongylus colubr and treated by direct percutaneous intraruminal puncture with 30 mg I and 3.8 mg albendazole/kg. The infestations were effectively controlled.

IT 90509-02-7D, Luxabendazole, mixts. with pyraclofos derivs.
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antiparasitic activity of)
RN 90509-02-7 CAPLUS
OS Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 39 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
1991:S89757 CAPLUS
DOCUMENT NUMBER:
115:189757
TLTLE:
1NVENTOR(S):
NOn-aqueous micellar solutions of various drugs
Crooks, Michael John
Australia
SURCE:
CORD.: PAL. Appl., 10 pp.
CODEN: PPXXDW

DOCUMENT TYPE:
Patent
TANGLINER:
TESTIFICATION
TO THE TOTAL TOTAL TO THE TOTAL TOTAL

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. KIND DATE APPLICATION NO. DATE

EP 427582 A2 19910515 EP 1990-402860 19901012

EP 427582 A3 19920812

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

US 5169846 A 19921208 US 1990-595906 19901011

AU 9064533 A1 19910418 AU 1990-64533 19901012

AU 628671 B2 19920917

ZA 9008165 A 1991082 ZA 1990-8165 19901012

PRIORITY APPLM. INFO: AU 1989-6807 A 19891012

AB A nonac, micellar solution for improvement of animal health comprise water-insol, anthelmintics and/or insect growth regulators in an ethoxylated oil of fat surfactant and cosolvents chosen from a group containing DMSO, N-Me pytrolidone, tetraglycol, and propylene glycol. The system allows poorly water-soluble drugs to enhance their bioavailability and

also allows transport of the drugs (especially for insect growth regulators) across the skin. Thus, 5 g albendazole was dispersed in DMSO 10 g and 85 g of ethoxylated castor oil was added while heating to give a clear product for topical administration.

90509-02-7. Luxabendazole
RL: BIOL (Biological study)
(nonaq. solution containing ethoxylated castor oil and methylpyrrolidone

ΙT

and.

bioavailability improvement in)
90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-lHbenzimidazol-5-yl ester (9Cl) (CA INDEX NAME)

L4 ANSWER 40 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1991:199108 CAPLUS DOCUMENT NUMBER: 114:199108

Comparative efficacies of commercially available benzimidazoles against Pseudodactylogyrus infestations

in eels

In Bels
Buchmann, K., Bjerregaard, J.
Dep. Fish Dis., R. Vet. Agric. Univ., Frederiksberg,
UK-1870, Dev.
Diseases of Aquatic Organisms (1990), 9(2), 117-20
CODEN: 20.00ED: 155N: 0177-5103 AUTHOR (S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Journal LANGUAGE:

CODEN: OAOREO: ISSN: 0177-5103

JUNENT TYPE: Journal

SUAGE: English
The antiparasitic efficacies of 9 benzimidazoles in com. available
formulations were tested (water bath treatments) on small pigmented eels,
Anguilla anguilla, exptl: infeeted by 30 to 140 specimens of
Pseudodactylogyrus (Monogenea). Exposure time was 24 h and eels were
examined 4 to 5 d post treatment. Mebendazole (vermoxz 1 mg L-1) eradicated
all parasites, whereas luxabendazole (pure substance) and albendazole
(Valbazen) were 1004 effective only at a concentration of 10 mg L-1.
Flubendazole (Flubenol), fenbendazole (Panacur) and oxibendazole (Loditac)
(10 mg L-1) caused a reduction of the infestation level to a larger extent
than did triclabendazole (Fainens) and parbendazole (Hanatac).
Thiahendazole (Equizole), even at a concentration as high as 100 mg L-1, was
vithout effect on Pseudodactylogyrus.
90509-02-7, Luxabendazole
Ri: PRP (Properties)
(anthelmintic effect of, in eels infested with Pseudodactylogyrus)
90509-02-7 CAPLUS
Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl) amino]-1Hbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 41 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 41 OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
1191:162526 CAPLUS
114:162526
Immunochemical datection of rodent hepatic and urinary metabolites of cooking-induced food mutagens
AUTHOR(S):

CORPORATE SOURCE:

CORPORATE SOURCE:

SOURCE:

SOURCE:

CORPORATE SOURCE:

DOCUMENT TYPE:

Biomed. Sci. Div., Lawrence Livermore Natl. Lab.,
Livermore, CA. 94550, USA
Caccinogenesia (1991), 12(2), 349-54
CODEN: CORPOR INSORPHY ISSN: 0143-3334
JOURNAL PROBLEMS
Foolish
Foolish

SOURCE: Carcinogenesis (1991), 12(2), 349-54
CODEN: CRMGDP: ISSN: 0143-3334
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Monoclonal antibodies, previously selected to bind either
2-amino-1,-methylimidazo(4,5-f)quinoxaline (MeIQR) or
2-amino-1-methylimidazo(4,5-f)quinoxaline (MeIQR) or
2-amino-1-methyl-6-phenylimidazo(4,5-b)pyridine (PhIP) were evaluated to
deterine their binding properties with several known metabolites of these
compds, purified from rat hepatocyte cultures. Both 2-M- and
5-substituted MeIQR metabolites were recognized by antibodies AIA-2 and
AIA-11, while antibodies AIA-1 and AIA-12 bound N-substituted metabolites
only. Anti-PhIP antibodies bound N-bydroxy-PhIP. N-sulfinamideglutathione-PhIP and N-hydroxyglucuronide-PhIP. Immunoaffinity columns
incorporating these antibodies were used to concentrate and purify both the
unmetabolited parent compds, and several relatively nonpolar metabolites
from the urine of rats exposed either to MeIQN or PhIP. Several of these
metabolites corresponded with available sids, of previously identified
polar conjugate metabolites, e.g. N-sulfamate-MeIQN and N(OII)-glu-PhIP,
while others were not identified.

IT 130146-79-9 130146-79-1
RL: BIOL (Biological study)

RL BIOL (Sological study)

(monoclonal antibodies binding to, immunol. detection in relation to)
30146-77-9 CAPLUS
3H-Imidazo[4.5-f]quinoxaline-0-methanol, 2-amino-3-methyl-5-(sulfooxy)-(SCI) (CA INDEX NAME)

130146-79-1 CAPLUS
3H-Imidazo(4,5-flquinoxalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen aulfate
(ester) (2G1) (CA INDEX NAME)

L4 ANSWER 42 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1990: 606464 CAPLUS

113:206464

DOCUMENT NUMBER: TITLE:

ACCESSION NUMBER:

1990:606464

TITLE:

The contribution of N-oxidation to the metabolism of the food-botne carcinogen 2-anino-3,8-dimethylimidazo[4,5-f]quinoxaline in rat hepatocytes of untreast Plant Pl

N-hydroxy-N-glucuronide, also was detected. The nitro derivative of MeIQx,

N-hydroxy-N-glucuronide, also was detected. The nitro derivative of MeIQM, direct-acting bacterial mutagen, was readily detoxified by glutathione transferase, forming a conjugate where the thiol group of glutathione displaced the nitro moiety. Low but detectable levels of N-acetyltransferase activity were observed for MeIQM and sulfamethazine in hepatocytes. IBNOI-MeIQM and 4-(hydroxyamion)biphenyl (RNOH-ADF), a recognized human carcinogen, displayed acetyl CoA-dependent DNA binding in hepatic yetosol assays. Sulfamethazine decreased the DNA binding of NHOH-MeIQM in hepatocytes, suggesting a competition for acetyltransferase. However, the binding of INOH-MeIQM to UNA in hepatocytes was independent of sulfotransferase since inhibitors of this enzyme, 2,6-dichloro-4-nitrophenol (DCMP) and PCP, did not diminis DNA binding. In contrast, binding of HNOH-ADF to DNA was not decreased by sulfamethazine, but binding was diminished by both sulfotransferase inhibitors. From these inhibition expts., it appears that a major route of binding of HNOH-MeIQM to DNA in hepatocytes is mediated through O-acetyltransferase while a significant portion of HNOH-ADP bound to DNA is catalyzed by sulfotransferase.

130146-77-9 130146-79-1

RL: BIOL (Biological study)

(as aminodimethylinidazoquinoxaline metabolite, of hepatocytes)

3H-Imidazo(4,5-f)quinoxaline-8-methanol, 2-amino-3-methyl-5-(sulfooxy)-(9CI) (CA INDEX NAME)

IT

ANSWER 42 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

130146-79-1 CAPLUS
3H-Imidazo(4.5-f]quinoxalin-5-ol, 2-amino-3,8-dimethyl-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

L4 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN ACCESSION NUMBER: 1990:113932 CAPLUS DOCUMENT NUMBER: 112:113932

TITLE:

Effect of enzyme inducers on the metabolism of 2-amino-3-methylimidazo[4,5-f]quinoline (IQ) in the

Vavrek, M. T.: Sidoti, P.: Reinhardt, J.: Weisburger, AUTHOR(S):

J. H. Health Found., Valhalla, NY, 10595-1599, USA Cancer Letters (Shannon, Ireland) (1989), 48(3), 183-8 CODEN: CALEDQ: ISSN: 0304-3835 CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

MENT TITE: JOURNAI (MAGR: Brightsh Title: Brightsh The effect of enzyme inducers 3-methylcholanthrene (3-MC) and Aroclor 1254 (A-1254) on the metabolic fate of the dietary mutagen and carcinogen 2-amino-3-methylimidazo[4,5-f]quinoline (IQ) in male F344 rats was studied in relation to single dose of corn oil and untreated controls. The latter 2 groups were similar as regards metabolism of IQ. However, the ratio of total metabolites excreted in urine compared with feces was higher in A-1254 pretreated rats. In fact, this distinct excretory pattern stemmed from a lower level of IQ-N-sulfamate, and a considerably higher lavel of 5-OH-IQ sulfate ester, a major metabolite in urine of A-1254-injected by the treatment. Thus, the direct 5-hydroxylation of IQ appears to be considerably increased by 3-MC and more so by A-1254, and under those conditions the resulting 5-OH-IQ is preferentially converted to the sulfate ester, in turn readily excreted in urine.

122719-40-8

13: BIOL (Biological study)

122719-40-8
RL: BIOL (Biological study)
(as IQ metabolite, of feces and urine)
122719-40-8 CREUS
3H-Inidazo[4,5-f]quinolin-5-ol, 2-amino-3-methyl-, hydrogen sulfate
(ester) (9CI) (CA INDEX NAME)

ACCESSION NUMBER:
1990:551046 CAPLUS
DOCUMENT NUMBER:
113:151046
Interaction of anthelmintic residues in cow milk with bacteria and Penicillium roquefortii

AUTHOR(S):
Longin-Sauvageon, C.; Beguin, J. C.; Florent, M.
CORPORATE SOURCE:
INRA. E. Natl. Vet. Lyon, Narcy-1'Etoile, 69280, Fr.
SOURCE:
Lait (1990), 70(1), 37-44
CODEN: LAITAG; ISSN: 0023-7302
JOURNAL Residues of 9 anthelmintics and their metabolites in milk following administration to cows at doses 1.5-fold recommended levels did not have a neg. effect on bacteria (Streptococcus themophilus, Bacillus species) and P. roquefortii during cheese manufacture Although lobendazole, albendazole, thiabendazole, luxabendazole, and febendazole vere active against P. roquefortii in vitro (minimal inhibitory concentration \$1.56 \mug/ml), none of these anthelmintics are likely to hinder cheese manufacture when

ΙT

used

under recommended conditions. 90509-02-7, Luxabendazole RL: BIOL (Biological) study) (Penicillium roquefortii inhibition by, cheese manufacture in relation

90509-02-7 CAPLUS Benzenesulfonic acid, 4-fluoro-, 2-[{methoxycarbonyl)amino]-1H-benzimidacol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 45 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
1990:113926 CAPLUS
112:113926
Characterization of metabolites of the food mutagens
2-amino-3-methylimidazo(4,5-f)quinoline and
2-amino-3,4-dimethylimidazo(4,5-f)quinoline formed
after incubation with isolated rat liver cells
Alexander, J.: Holme, J. A.; Wallin, H.; Becher, G.
Dep. Toxicol. Natl. Inst. Public Health, Oslo,
N-0452, Norway
Chemico-Biological Interactions (1989), 72(1-2),
125-42
COURCE: CBINAR; ISSN: 0009-2797

DOCUMENT TYPE:

RCE: Chemico-Biological Interactions (1989), 72(1-2), 125-42
CODEN: CBINAS, ISSN: 0009-2797
JOHENT TYPE: Journal Smills S

125729-27-3

123729-27-3

Ri. BIOL (Biological study)
(of hepatocytes, as MeIQ metabolite)
125729-27-3 CAPLUS
3H-Imidazo(4,5-f]quinolin-5-ol, 2-amino-3,4-dimethyl-, hydrogen sulfate
(ester) (GCI) (CA INDEX NAME)

L4 ANSWER 47 OF 53 CAPILUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1985:6487 CAPILUS DOCUMENT NUMBER: 102:6487 102:6487
Substituted phenylsulfonyloxybenzimidazolecarbamates and their anthelminthic use Roesner, Manfred; Lowe, Heinz; Duevel, Dieter; Kirsch, Reinhard Hoechst A.-G., Fed. Rep. Ger. GODEN: GWXEKX Patent German TITLE: INVENTOR(S): PATENT ASSIGNEE(5): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAIDAI	INFORMATIO				•		
P	ATENT NO.		KIND	DATE	APPLICATION NO.		DATE
	E 3247615		Al	19840705	DK 1982-3247615		19821223
	N 32010		~	10840928			19831219
	U 32810 U 192972		Š	19870828	110 1505 1551		
	1 8304709)	19840624	FI 1983-4709		19831221
	S 528243			19840801			19831221
	33 328243		N1	10040001	EP 1983-112900		
	EP 115039				EF 1303-112300		130014
					LI, LU, NL, SE		
	H: AL,	BE, CH,	λ, ε	19870127			19831221
					IL 1983-70520		19831221
	L 70520		E		AT 1983-112900		19831221
	T 32459		E				19831222
	K 8305938		^	19840624	DK 1903-3930		13031422
	K 150065			19861201			
	OK 150065			19871026			1002122
	10 8304773			19840625			19831222
	AU 8322808		A1	19840628			19031222
				19870212			10001000
	JP 59118774		A2	19840709	JP 1983-241121		19831222
	JP 04034545						
	ZA 8309534						19831222
	CA 1199642		A1	19860121	CA 1983-444076		
PRIOR	ITY APPLN.	INFO.:			DE 1982-3247615		
					EP 1983-112900	A	19831221
OTHER	SOURCE (5):		CASRI	EACT 102:64	87		
GI							

RSO:

Anthelmintic (no data) title compds. (I; R = substituted Ph; R1 = alkyl) were prepared 2,4-(H2N) (4-FC6H4SO3)C6H3NO2 was hydrogenated over Raney Ni to give the diamine which was cyclocondensed with HeO2CN:C(SHe)NHCO2He to give I (R = 4-FC6H3, R1 = Me).
90509-02-TP 93624-05-6P 93624-09-99
93624-01-3P 93624-03-9P 93624-03-9P
93624-10-3P 93624-11-4P 93624-12-5P

L4 ANSVER 46 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:528761 CAPLUS
DOCUMENT NUMBER: 1989:528761 CAPLUS
111:128761
III.128761
III.128761
III.128761
III.128761
AUTHOR(S): Luks, Howard J., Spratt, Thomas E., Vavrek, M.
Thaddeus; Roland, Suzanne F., Weisburger, John H.
Ny, 10595, USA
SOURCE: Naylor Dana Inst. Dis. Prevent., Am. Health Found., Valhalla, NY, 10595, USA
Cancer Research (1989), 49(16), 4407-11
COURN: CNNERAR; ISSN: 0008-5472
Journal
ANN New metabolites of 2-amino-3-methylimidazo[4,5-f]quinoline (IQ), a potent
mutagen and carcinogen formed during cooking of mata or fish, were
identified and quantitated in the urine and bile of rats. Administration
was by a pulse gavage dose of 40 mg/kg [2-14C][Q or by dietary intake of
300 ppm 10 for 6 wk. The metabolites were isolated by IRPLC and
quantitated by radioactivity. They were then characterized by their
resistance or sensitivity to hydrolytic enzymes or acid hydrolysis, by MMR
and mass spectrometry, or co-injection with a synthetic sample. A minor
metabolite was the 10 N-glucuronide. A major metabolites was formed by
hydroxylation of IQ at the 5-position; it was present in urine and bile
and was conjugated as the glucuronide or sulfate ester, which together
accounted for .apprx.401 of urinary or biliary metabolites. The
unconjugated compound partially adsorbs onto the HFLC columns used. The
amts. of 5-OH-IQ present as conjugates in urine or bile were similar,
irresp. of mode of administration. Thus, hydroxylation of IQ on carbon 5
followed by type conjugation reactions yields quant. important metabolic
products.

products, 122719-40-8
RL BIOL (Biological study)
(as aniomethylimidazoquinoline metabolite, in urine)
122719-40-8
CAPUS
3H-Imidazo(4,5-f]quinolin-5-ol, 2-amino-3-methyl-, hydrogen sulfate
(ester) (9CI) (CA INDEX NAME)

ANSWER 47 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continue 93624-13-6P 93624-14-7P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of) 90509-02-7 CAPLUS Benzenesulfonic acid, 4-fluoro-, 2-[(methoxycarbonyl)amino]-lh-benzimidazol-5-yl ester (9CI) (CA INDEX NAME) (Continued)

93624-05-6 CAPLUS
Benzenesulfonic cid, 3-(1,1,2,2-tetrafluoroethyl)-, 2[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

93624-06-7 CAPLUS Benzenesulfonic acid, 4-ethyl-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9C1) (CA INDEX NAME)

93624-07-8 CAPLUS
Benzenesulfonic acid, 4-(1-methylethyl)-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

93624-08-9 CAPLUS
Benzenesulfonic acid, 4-propyl-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

, ·•

93624-09-0 CAPLUS Benzenesulfonic acid, 4-cyclohexyl-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

93624-10-3 CAPLUS Benzeneaulfonic acid, 3-fluoro-, 2-[(methoxycarbonyl)amino]-1H-benzimidacul-5-yl ester (9CI) (CA INDEX NAME)

$$\mathsf{F} = \mathsf{N} = \mathsf{N} + \mathsf{N} + \mathsf{N} + \mathsf{C} - \mathsf{CMe}$$

93624-11-4 CAPLUS
Benzenesulfonic acid, 3,4-difluoro-, 2-[(methoxycarbonyl)amino]-lHbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

93624-12-5 CAPLUS Benzenesulfonic acid, 4-bromo-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 40 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1978:121185 CAPLUS
88:121185
Anthelmintlc 2-carbalkowyamino-5(6) phenylsulfonyloxybenzimidazole derivatives
Loewe, Heinzi Urbanietz, Josef; Duwel, Dieter; Kirsch,
Reinhard
Hocchst A.-G., Fed. Rep. Ger.
BTALL A.-G., Fed. Rep. Ger.
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:
PATENT ACC. NUM. COUNT:
1

MANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	- 1	DATE
BR 7601238	Α	19770906	BR 1976-1238		19760226
PRIORITY APPLN. INFO.:			BR 1976-1238	١.	19760226
GI			,		

Benzimidazolecarbamates I (R = Cl-4 alkyl, Rl, R2 = H, OH, Cl-4 alkyl, alkony, or alkonycarbonyl, halogen, CP3) were prepared Thus
MeSC(1NII)MHOOZNe was treated with 3,4-(HZN)ZCGH303SPh to give I (R = Me, Rl = R2 = H). MeSC(1NII)MHCOZNe was prepared in situ by treating MeSC(1NII)MH2.HZSO4 with ClcCZNe. 3,4-(HZN)ZCGH303SPh was obtained by treating 3,4-OZN(HZN)ZCGH301SPh.

\$206-65-55 \$206-79-0P \$59206-73-4P \$59206-78-79 \$59206-79-9P \$59206-78-7P \$59206-79-PP \$59206-79-PP \$59206-79-PP \$59206-79-PP \$59206-79-PP \$59206-79-PP \$59206-79-SP \$2689-99-FP \$2689-99-FP \$2689-99-PP \$2689-99-FP \$2689-99-PP \$2689-99-PP \$2689-99-FP \$2689-99-PP \$2699-99-PP \$2699-9

59206-70-1 CAPLUS
Benzenesulfonic acid, 4-chloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 47 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

93624-13-6 CAPLUS
Benzenesulfonic acid, 2-fluoro-, 2-[{methoxycarbonyl}amino}-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

93624-14-7 CAPLUS Benzenesulfonic acid, 3,5-bis(trifluoromethyl)-, 2-(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 48 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

59206-73-4 CAPLUS Benzenesulfonic acid, 3-chloro-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-76-7 CAPLUS Benzenesulfonic acid, 3,5-dichloro-, 2-{ (methoxycarbonyl) amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-79-0 CAPLUS Benzenesulfonic caid, 3-bromo-, 2-[[methoxycarbonyl]amino]-1H-benzimidəzol-5-yl ester (9CI) (CA INDEX NAME)

59206-82-5 CAPLUS
Carbamic acid, [5-[[(4-methylphenyl)sulfonyl]oxy]-1H-benzimidazol-2-yl]-,
methyl ester [9CI) (CA INDEX NAME)

59206-85-8 CAPLUS
Benzenesulfonic acid, 3-methyl-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-88-1 CAPLUS
Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

62889-94-5 CAPUS Benzeneulfonic Acid, 3,4-dichloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

62889-95-6 CAPLUS
Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[(ethoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9Cl) (CA INDEX NAME)

L4 ANSWER 49 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1977:423283 CAPLUS
87:23283
2-(Carbalkoxyamino)-5(6)-(phenylsulfonyloxy)benzimidaz
oles with anthelminthic activity
Loewe, Heinz: Urbandetz, Josef, Duewel, Dieter;
Kirsch, Reinhardt
Hoechst A.-G., Fed. Rep. Ger.
Ger. Offen., 14 pp.
CODEN: GOXXONX
FAMILY ACC. NUM. COUNT:
FAMILY ACC. NUM. COUNT:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2541752	A1	19770324	DE 1975-2541752	19750919
JP 59014027	B4	19840402	JP 1976-20235	19760227
NL 7610192	A	19770322	NL 1976-10192	19760914
FI 7602653	Α	19770320	FI 1976-2653	19760916
SE 7610310	λ	19770320	SE 1976-10310	19760916
HU 172484	P	19780928	HU 1976-HO1929	19760916
DK 7604198	λ	19770320	DK 1976-4198	19760917
DK 141550	В	19800421		
DK 141550	С	19801006		
NO 7603196	Α	19770322	NO 1976-3196	19760917
CA 1069909	A1	19800115	CA 1976-261425	19760917
AT 7606908	A	19800215	AT 1976-6908	19760917
AT 359575	В	19800925		
CH 619938	A	19801031	CH 1976-11820	19760917
PRIORITY APPLN. INFO.:			DE 1975-2541752	19750919

Anthelmintic benzimidazolecarbamates (I, Rn = H, 3-Cl, 4-Cl, 3-Br, 3-Me, 4-Me, 3,4-Cl2, 3,5-Cl2, 3-F3C, Rl = Me, Et, Me2CH, Me2CHCH2) are prepared by reaction of the appropriate benzenesulfonyl chloride with 5-bydroxybenzimidazolecarbamates. Thus, reaction of 5.15 g 2-(carbomethosyamino)-5-bydroxybenzimidazolec with 4.4 g phs02Cl in Me2CO in presence of Et3N gives after 10 h at room temperature 6.2 g I (Rn = H,

Me).
59206-66-5P 59206-70-1P 59206-73-4P
59206-76-7P 59206-79-0P 59206-82-5P
59206-85-P 59206-89-1P 62889-94-5P
62889-95-6P 62889-96-7P 62889-97-8P
RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): BIOL (Biological study): PREP (Preparation)
(preparation and anthelmintic activity of)
59206-66-5 CAPLUS
Carbamic acid, [5-[(phenylsulfonyl)oxy]-1H-benzimidazol-2-yl]-, methyl

ANSWER 48 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN CN 62889-96-7 CAPLUS ozog--u-/ CAFMS Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[{(1-methylethoxy)carbonyl]amino}-1H-benzimidazol-5-yl ester (9CI) (CA INDEX

62889-97-8 CAPLUS
Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[{(2-methylpopony)carbonyl]amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX

ANSWER 49 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN ester (9CI) (CA INDEX NAME)

59206-70-1 CAPLUS
Benzenesulfonic acid, 4-chloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

RN CN 59206-73-4 CAPLUS Benzenesulfonic acid, 3-chloro-, 2-((methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

SMZUD-76-1 CAPAUS Benzenesulfonic acid, 3,5-dichloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

39200-19-U CHEMDS Benzenesulfonic acid, 3-bromo-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-82-5 CAPLUS
Carbanic acid, [5-[([4-methylphenyl) sulfonyl]oxy]-lH-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

59206-85-8 CAPLUS
Benzenesulfonic acid, 3-methyl-, 2-[(methoxycarbonyl)amino]-1Hbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-88-1 CAPLUS
Benzenesulfonic acid, 3-(trifluocomethyl)-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl erter (9CI) (CA INDEX NAME)

62889-94-5 CAPLUS Benzeneulfonic acid, 3,4-dichloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER SO OF 53
ACCESSION NUMBER:
DOCUMENT NUMBER:
1977:405976 CAPLUS
87:5976
2-Cachalkoxyaminobenzimidazole derivatives with anthelmintic activity
Loeve, Reinzr utoanietz, Josef; Duewel, Dieter;
Kirsch, Reinhard
Hoechst A.-G., Fed. Rep. Ger.
Ger. Offen., 19 pp.
CODEN: GWXXEX
DOCUMENT TYPE:
LANGUAGE:
PANELIZ UKONATION:
German
FAMILITY ACC. NUM. COUNT:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2541751	A1	19770324	DE 1975-2541751	19750919
NL 7610191	Α	19770322	NL 1976-10191	19760914
FI 7602654	A	19770320	FI 1976-2654	19760916
SE 7610311	A	19770320	SB 1976-10311	19760916
DK 7604199	A	19770320	DK 1976-4199	19760917
No 7603197	A	19770322	NO 1976-3197	19760917
CH 605822	Ä	19781013	CH 1976-11022	19760917
AT 7606909	Ä	19791015	AT 1976-6909	19760917
AT 356651	В	19800512		
CA 1069908	Ãl	19800115	CA 1976-261424	19760917
PRIORITY APPLN. INFO.:		15000111	DE 1975-2541751	A 19750919
GI				

Benzimidazolecarbamates I (R = Me, Et, Pr, Bu; RIn = e.g. H, 3-Br, 3-Cl, 4-Cl, 3,5-Cl2, 3-Me, 4-Me, 3-MeO, 3-F3C; X = OSO2, SO2O), useful as anthelmintics (no data), are prepared by treatment of the appropriate (H-2,1,4-benzothiadiazine-3-carbamates with Ph3P. Thus, treatment of 5 g Ph 3-(carbomethoxyamino)-H-2,1,4-benzothiadiazine-7-sulfonate with 7.5 g Ph3P 3 h to refluxing CRCl3 gives 3.2 g I (R = Me, Rln = H, X = OSO2). 59206-66-59 59206-70-719 59206-73-4P 59206-76-7P 59206-79-0P 59206-89-59 59206-88-1P 62889-95-69 62889-95-69 62889-95-79 6289-97-8P RL: SPN (Synthetic preparation); PREP (Preparation)

ozw89-95-6F 62889-96-7F 62889-97-8P
RL: SPN (Synthetic preparation); FREP (Preparation)
(preparation of)
59206-66-5 CAPLUS
Carbamic acid, [5-[(phenyisulfonyl)oxy]-1H-benzimidazol-2-yl]-, methyl
ester (9CI) (CA INDEX NAME)

ANSWER 49 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

62889-95-6 CAPLUS
Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[(ethoxycatbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

62889-96-7 CAPLUS
Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[[(1-methylethoxy)carbonyl]amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ogsy=y(-8 CAPLUS Benzenesulfonic acid, 3-{trifluoromethyl}-, 2-{{(2-methylpropoxy)carbonyl}amino}-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

ANSWER 50 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

59206-70-1 .CAPLUS Benzenesulfonic acid, 4-chloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazoi-5-yl ester (9CI) (CA INDEX NAME)

59206-73-4 CAPLUS
Benzenesulfonic acid, 3-chloro-, 2-[(methoxycarbonyl)amino]-1Hbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-76-7 CAPLUS
Benzenesulfonic acid, 3,5-dichloro-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-79-0 CAPLUS
Benzenesulfonic acid, 3-bromo-, 2-[{methoxycarbonyl}amino}-lH-benzimidazol-5-yl ester (9C1) (CA INDEX NAME)

59206-82-5 CAPLUS
Carbamic acid, [5-[[(4-methylphenyl)sulfonyl]oxy]-1H-benzimidazol-2-yl]-,
methyl ester (9CI) (CA INDEX NAME)

59206-85-8 CAPLUS
Benzenesulfonic acid, 3-methyl-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9Cl) (CA INDEX NAME)

\$9206-88-1 CAPLUS Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-((methoxycarbonyl)amino)-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

62889-94-5 CAPLUS
Benzenesulfonic add, 3,4-dichloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1976:180222 CAPLUS
94:180222
Anthelmintic 2-carbalkoxyamino-5(6)-phenylsulfonyloxybenzimidazoles
Loews, Heinzr Urbanietz, Josef, Duewel, Dieter,
Kirsch, Reinhard
PATENT ASSIGNEE(S):
Bocchen Type:
CODEN: GWXXEX
Patent
LANGUAGE:
PATENT INFORMATION:
1976:180222
Anthelmintic 2-carbalkoxyamino-5(6)-phenylsulfonyloxybenzimidazoles
Loews, Heinzr Urbanietz, Josef, Duewel, Dieter,
Kirsch, Reinhard
Ger. Offen., 24 pp.
CODEN: GWXXEX
Patent
LANGUAGE:
PATENT INFORMATION:
1976:180222
Anthelmintic 2-carbalkoxyamino-5(6)-phenylsulfonyloxybenzimidazoles
Loews, Heinzr Urbanietz, Josef, Duewel, Dieter,
Kirsch, Reinhard
Ger. Offen., 24 pp.
CODEN: GWXXEX
Patent
LANGUAGE:
PATENT INFORMATION:

GΙ

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2441201	A1	19760311	DE 1974-2441201		19740828
DE 2441201 DE 2441201	C2	19860807	22 13/1 2111211		
CS 196278	P	19800331	CS 1975-5619		19750815
NL 7509957	À	19760302	NL 1975-9957		19750822
NL 187208	B	19910201	1310 220		
NL 187208	č	19910701			
FR 2202881	Ăl	19760326	FR 1975-26015		19750822
FR 2282881	В1	19800430			
ES 440386	A1	19770601	ES 1975-440386		19750822
SE 7509442	A	19760301	SE 1975-9442		19750825
SE 417509	В	19810323			
SE 417509	č	19810709			
FI 7502397	Ä	19760229	FI 1975-2397		19750826
FI 60203	В	19810831			
FI 60203	c	19811210			
DD 124978	Ċ	19770323	DD 1975-188034		19750826
GB 1472718	A	19770504	GB 1975-35218		19750826
1L 47997	A1	19781031	IL 1975-47997		19750826
СН 613195	Α	19790914	CH 1975-11068		19750826
DK 7503848	A	19760229	DK 1975-3848		19750827
DK 136188	В	19770829			
NO 7502944	A	19760302	NO 1975-2944		19750827
NO 140591	С	19791003			
NO 140591	В	19790625			
ZA 7505486	A	19760728	ZA 1975-5486		19750827
SU 576044	D	19771005	SU 1975-2167451		19750827
AT 347935	В	19790125	AT 1975-6637		19750827
CA 1059135	A1	19790724	CA 1975-234272		19750827
BE 832859	A1	19760301	BE 1975-159560		19750828
JP 51048665	A2	19760426	JP 1975-103563		19750828
JP 59010350	B4	19840308			
CS 196279	P	19800331	CS 1978-6320		19780829
CS 196280	P	19800331	CS 1978-6321		19780829
CS 196281	P	19800331	CS 1978-6322		19780829
PRIORITY APPLN. INFO .:			DE 1974-2441201	A	19740828
			CS 1975-5619		19750815

ANSWER 50 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

G2889-95-6 CAPLUS Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[(ethoxycarbonyl)amino]-Hi-benzimidazol-5-yl ester (9C1) (CA INDEX NAME)

62889-96-7 CAPLUS
Benzenesulfonic acid, 3-{trifluoromethyl}-, 2-[[[1-methylethóxy]carbonyl]amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

62889-97-8 CAPLUS
Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-[[(2-methylpropoxy) carbonyl]amino]-IH-benzimidazol-5-yl ester [9CI] (CA INDEX

L4 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

Phenylsulfonyloxybenzimidazole I (R = H, 4-Cl, 3-Cl, 3-Br, 4-Me, 3-Me, 3-Cr3, 3,5-Cl2) were prepared by treating 3,4-02N(H2N)C6H3OH with RCGH450CL, reducing 3,4-02N(H2N)CGH3OHSOHHAN, and condensing 3,4-(H2N)Z6H3OHSCGH4R with HN:C(SMe)NHCOZMe, prepared by treating HN:C(SMe)NH2 with ClCOZMe.

59206-66-5F 59206-70-1P 59206-73-4P
59206-68-5F 59206-70-0P 59206-82-5P
59206-68-6P 59206-80-1P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
59206-65-5 CAPLUS
Carbamic acid, [5-((phenylsulfonyl)oxy]-1H-benzimidazol-2-yl]-, methyl ester (9Cl) (CA INDEX NAME)

59206-70-1 CAPLUS Benzenesulfonic acid, 4-chloro-, 2-[(methoxycarbonyl)amino]-1H-benzinidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-73-4 CAPLUS
Benzenesul[onic acid, 3-chloro-, 2-[(methoxycarbonyl)amino]-lH-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-76-7 CAPLUS
Benzenesulfonic acid, 3,5-dichloro-, 2-[(methoxycarbonyl)amino]-1H-

\$9206-79-0 CAPLUS
Benzenesulfonic acid, 3-bromo-, 2-[{methoxycarbonyl}amino}-1H-benzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-82-5 CAPLUS
Carbamic acid, [5-[[(4-methylphenyl)sulfonyl]oxy]-lH-benzimidazol-2-yl]-, methyl ester (9Cl) (CA INDEX NAME)

59206-85-8 CAPLUS
Benzenesulfonic acid, 3-methyl-, 2-[(methoxycarbonyl)amino]-lHbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

59206-88-1 CAPLUS
Benzeneaulfonic acid, 3-{trifluoromethyl}-, 2-[(methoxycarbonyl)amino]-lHbenzimidazol-5-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 52 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:107204 CAPLUS
DOCUMENT NUMBER: 82:107204
TITLE: Metabolism of thioureidobenzene fungicides in mice and

DOCUMENT NUMBER: 82:107204

TITLE: Metabolism of thioureidobenzene fungicides in mice and sheep
AUTHOR(S): Douch, P. G. C.
CORPORATE SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

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Upper Hutt, N. 2.

SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

SOURCE: Vallaceville Anim. Res. Cent., Minist. Agric. Fish.,
Upper Hutt, N. 2.

Nouse cissue and sheep liver enzyme prepns. metabolized thiophanate (I)
[23564-06-9]. Hophanate methyl (II) [23564-05-9] and related
thioureidobenzene compds. to the benzimidazole derivs. and their
[53-6-7-6]. and was inhibited by SKP 525A [62-68-0] and CO [630-08-0]. I
and II (0.1 g/kg, orally) were eliminated in vivo partly as Me
benzimidazol-2-ylcarbamate [10605-21-7] or Et benzimidazol-2-ylcarbamate
[6306-71-4] and their hydroxylated derivs. The hydroxylated metabolites
were excreted as glucuronide and sulfate conjugates, and 9-14% of the
benzimidazole derivs. were eliminated as conjugates, and 9-14% of the
benzimidazole derivs. were eliminated as conjugates, and 9-14% of the
benzimidazole dorivs. were eliminated as conjugates, and 9-14% of the
benzimidazole dorivs. were eliminated as conjugates, and 9-14% of the
benzimidazole dorivs. were eliminated as conjugates, and 9-14% of the
benzimidazole dorivs. were eliminated on sulfate conjugates, and 9-14% of the
benzimidazole dorivs. were eliminated on sulfate conjugates, and 9-14% of the
benzimidazole dorivs. were eliminated on sulfate conjugates, and 9-14% of the
benzimidazole dorivs. were eliminated on sulfate conjugates,

51276-90-5 CAPLUS 1H-Benzimidazol-5-ol, 2-amino-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

54685-68-6 CAPLUS

Carbamic acid, [5-(sulfooxy)-IH-benzimidazol-2-yl]-, C-ethyl ester (9CI) (CA INDEX NAME)

ANSWER 51 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN

ANSWER 52 OF 53 CAPLUS COPYRIGHT 2004 ACS ON STN

LA ANSWER 53 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1974:610 CAPLUS
DOUGHENT NUMBER: 90:610
TITLE: Hetabolism of benomyl fungicide in mammals
OCHPENT NUMBER: Douch, P. G. C.
CORPORATE SOURCE: Vallaceville Anim. Res. Cent., Minis. Agric. Fish.,
Upper Hutt, N. Z.
SOURCE: Xenobictica (1973), 3(6), 367-80
CODEN: XENOBH; ISSN: 0049-8254
DOCUMENT TYPE: Journal
LANGUAGE: English
AN Mica, rabbits, and sheep, administered with benomyl [1] [17804-35-2]
produced similar patterns of metabolites to those formed by tissue prepns.
incubated with I. In all 3 species, 2 metabolites were formed by
hydroxylation, and 2 by ester hydrolysis. The hydroxylated metabolites
were excreted from all species as the sulfate and glucuronide conjugates.
Conjugates with acetic acid were not elected. Approx. 201 of the dose
given to each species was eliminated as conjugates of hydroxylated
metabolites. Formation of hydroxylated metabolites was inhibited by
P-diethylaminosthyl diphenylroxylacetate in vitro. In liver enzyme
prepns. from all 3 species, 2-aminobenzimidazole [934-32-7] was
hydroxylated to give 5-hydroxyl-2-aminobenzimidazole.
TI 31276-89-2 251276-90-5
RL: FORM (Formation, nonpreparative)
(formation of, as benomyl metabolite)
RN 51276-89-2 CAPLUS
CN Carbanic acid, (5-(sulfooxy)-III-benzimidazol-2-yl]-, C-methyl ester (9CI)
(CA INDEX NAME)

51276-90-5 CAPLUS 1H-Benzimidazol-5-ol, 2-amino-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)

=> logoff ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF LOGOFF? (Y)/N/HOLD:y COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION ENTRY 252.72 408.35 FULL ESTIMATED COST TOTAL SINCE FILE DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) ENTRY SESSION -37.10 -37.10CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 08:20:31 ON 23 DEC 2004